

## Interball publications list 1995-2001.

1. Publications in English (320)
2. Publications in English (accepted) (72)
3. Publications in Russian (86)

### In English:

1. Afonin V.V., O.S.Akentieva, J.Smilauer, and I.Simunek, First results of thermal plasma measurements in the Auroral probe mission (experiment KM-7), *Cosmic Res.*, 36, N1, 14-29, 1998 (English version of Kosmicheskie issledovaniya, 36, N1, 15-30, 1998).
2. Afonin V.V., O.S.Akentieva, J.Smilauer, INTERBALL-2 measurements of the components of thermal and suprathermal plasma ( $E \leq 15$  eV) in high-latitude regions of the magnetosphere at altitudes 2-3  $R_E$ , *Cosmic Res.*, 38, N5, 483-491, 2000 (English version of Kosmicheskiye issledovaniya).
3. Agafonov Yu.N., J.Voita, P.Triska, and V.V.Khrapchenkov, Subsattellites of the Project INTERBALL, *Cosmic Res.*, 34, N4, 371-381, 1996.
4. Agapitov A.A., A.Andrushchenko, V.Ivchenko, S.Klimov, S.Romanov, O.Verkhoglyadova, Yu.Yermolaev, Observation of vortical motions and compressional waves in the dawn low-latitude sheet, *Journ. Technical Phys.*, V.XL, N1, 325-328, 1999.
5. Antonova E.E. and I.L.Ovchinnikov, Magnetostatically equilibrated plasma sheet with developed medium scale turbulence: structure and implications for substorm dynamics, *J. Geophys. Res.*, 104, A8, 17289-17293, 1999.
6. Antonova E.E., M.V.Stepanova, E.A.Vichreva, I.L.Ovchinnikov and M.V.Teltzov, Generation of unmagnetized motion of plasma sheet electrons and its possible causes, *J. Geophys. Res.*, 104, A9, 19941-19954, 1999.
7. Antonova A.E., V.N. Lutsenko, N.F. Pissarenko, Dynamics of the Dayside Cusp Particle Population, *ESA Publications SP-443*, 465-468, 2000.
8. Antonova E.E., Large scale magnetospheric turbulence and the topology of magnetospheric currents, *Adv. Space Res.*, 25, N7/8, 1567-1570, 2000.
9. Ashour-Abdalla M., M. El-Alaoui, V.Perroomian, J.Raeder, R.J.Walker, R.L.Richard, L.M.Zelenyi, A.L.Frank, W.R.Paterson, J.M.Bosqued, R.P.Lepping, K.Ogilvie, S.Kokubun, T.Yamamoto, Ion sources and acceleration mechanisms inferred from local distribution functions, *Geophys. Res. Lett.*, V.24, N8, p.955, 1997.
10. Ashour-Abdalla M., M.El-Alaoui, V.Perroomian, J.Raeder, R.L.Richard, R.J.Walker, L.M.Zelenyi, L.A.Frank, W.R.Paterson, J.M.Bosqued, R.P.Lepping, K.Ogilvie, S.Kokubun, and T.Yamamoto, Determination of particle sources for a geotail distribution function observed on May 23, 1995, Geospace Mass and Energy Flow: Results from the International Solar-Terrestrial Physics Program, *Geophysical Monograph 104*, American Geophysical Union, Washington D.C., 297-312, 1998.

11. Ashour-Abdalla M., M.El-Alaoui, V.Perroomian, R.Walker, L.Zelenyi, L.Frank, W.Paterson, Localized reconnection and substorm onset on De-cember 22, 1996, *Geophys. Res.Lett.*, 26, N23, 3645-3648, 1999.
12. Arshinkov I.S., A.Z.Bochev, V.G.Petrov, E.G.Zacherieva and V.L.Velev, Magnetic field experiments on board of the Interball-1 and – satellites during January 10-11, 1997 event, *Report of the 4-th national conference on Solar-Earth interaction*, Bulgarian Academy of Science, Sofia, pp.13-14, 1997.
13. Balikhin M.A., H.St-C.K.Alleyne, R.A.Treumann M.N.Nozdachev, S.N.Walker and W.Baumjohann, The role of nonlinear interaction in the formation of LF whistler turbulence upstream of a quasiperpendicular shock, *J. Geophys. Res.*, 104, A6, 12525-12536, 1999.
14. Baumjohann W., T.Nagai, A.A.Petrukovich, T.Mukai, T.Yamamoto, S.Kokubun, Substorm signatures between 11 and 31 Earth radii, *In International Conference on Substorms-4*, edited by S.Kokubun and Y.Kamide, 203-206, Kluwer Academic Publishers, Dordrecht, 1998.
15. Baumjohann W., M. Hesse, S. Kokubun, T. Mukai, T.N. Nagai and A.Petrukovich, Substorm dipolarization and recovery, *J. Geophys. Res.*, 104, 24995-25000, 1999.
16. Baumjohann W., T.Nagai, A.A.Petrukovich, T.Mukai, T.Yamamoto, S.Kokubun, Substorm signatures between 11 and 30 Earth radii, *Adv. Space Res.*, 25, 1663-1666, 2000.
17. Bezrukikh V.V., N.A.Barabanov, Yu.I.Venediktov, V.I.Zhdanov, V.I.Ivchenko, G.A.Kotova, L.A.Lezhen, S.A.Orzhinskii and V.I.Prokhorenko, Investigation of low-energy plasma in the Earth's magnetosphere on the Tail and Auroral probes: instrumentation and preliminary results, *Cosmic Res.*, 36, N1, 30-38, 1998 (English version of Kosmicheskie issledovaniya, 36, N1, 31-39, 1998).
18. Bezrukikh V.V., M.I.Verigin, G.A.Kotova, L.A.Lezhen, J.Lemaire, Yu.I.Venedictov, Plasmopause dynamics and distribution of cold plasma density in the Earth's plasmasphere and auroral magnetosphere, *Cosmic Res.*, 38, N5, 502-513, 2000 (English version of Kosmicheskie issledovaniya).
19. Bezrukikh V., G.Kotova, L.Lezhen, M.Verigin, M.Tatrallyay, Yu.Venediktov, Plasmopause dynamics during magnetic storms as observed by the Auroral Probe/Alpha 3 experiment. *Phys. Chem.*, 25, N1/2, 19-22, 2000.
20. Blecki J., K.Kossacki, R.Wronowski, Z.Nemecek, J.Safrankova, J.Simunek, J.Smilauer, Borodkova N.L., S.Romanov, S.Savin, J.Juchnievicz, S.Klimov, P.Triska, Electron-cyclotron harmonics observed by MAGION-4 satellite in plasma sheet, in: *Proceedings of Contribution Papers: Plasma'97 Research and Applications of Plasmas*, ed. by M.Sadowski and H.Rothkaehl,, Warsaw, V.1, 351-354, 1997.
21. Blecki J., H.Rothkael, K.Kossacki, R.Wronowski, Z.Klos, J.Juchnievicz, S.Savin, S.Romanov, S.Klimov, P.Triska, J.Smilauer, J.Simunek, K.Kudela, M.Forster, ULF-ELF-VLF-HF plasma wave observations in the polar cusp onboard high and low altitude satellites, *Physica scripta*, T75, 259-263, 1998.
22. Blecki J., K.Kossacki, R.Wronowski, Z.Nemecek, J.Safrankova, S.Savin, J.-A.Sauvaud, S.Romanov, J.Juchnievicz, S.Klimov, P.Triska, J.Smilauer, J.Simunek, Low frequency plasma waves observed in the outer polar cusp, *Adv. Space Res.*, 23, N10, 1765, 1999.

23. Borodkova N.L., D.G. Sibeck, G.N. Zastenker, S.A. Romanov, and J.-A. Sauvaud, Fast deformation of daytime magnetopause, *Cosmic Res.*, 36, N3, 245-250, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N3, 261-267, 1998).
24. Borodkova N.L., L.M. Zelenyi, V.N. Lutsenko, A.O. Fedorov, A.G. Yahnin, J. Hanasz, V.V. Klimenko, J. Manninen, R. Manninen, T. Mukai, R. Friedel, and J.-A. Sauvaud, Multi-point substorm observations of the outer plasma sheet dynamics on November 13, 1996, in: *Interball in the ISTP Program*, ed. by D.G. Sibeck and K. Kudela, Kluwer Academic Publishers, 11-28, 1999.
25. Buechner J., H. Wiechen, B. Nikutowski, U. Auster, K.-H. Fornacon, J. Rustenbach, S. Klimov, S. Romanov, S. Savin, and A. Otto, INTERBALL-1 plasma sheet encounters and three-dimensional MHD modeling results, *Adv. Space Res.*, 22, N1, 155-160, 1998.
26. Buechner J., J.P. Kuska, B. Nikutowski, H. Wiechen, J. Rustenbach, U. Auster, K.H. Fornacon, S. Klimov, A. Petrukovich, S. Savin., Three-dimensional reconnection in the Earth's magnetotail: simulations and observations, *Geophysical Monograph 104*, American Geophysical Union, ed. by J.L. Horwitz, D.L. Gallagher and W.K. Peterson, Washington D.C., 313-325, 1998.
27. Budnik E., A. Fedorov, and I. Sandahl, First results from the plasma mass spectrometer PROMICS-3 in the INTERBALL project (Auroral probe), *Cosmic Res.*, 36, N1, 68-80, 1998 (Transl. from *Kosmicheskie issledovaniya*, 36, N1, 69-81, 1998).
28. Burinskaya T.M., E.M. Indenbom, and V.V. Pivovarov, Generation of electrostatic solitary waves in the Earth's magnetotail, *Cosmic Res.*, 36, N3, 274-283, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N3, 292-301, 1998).
29. Burinskaya T., and E. Indenbom, Low frequency electrostatic waves generated by nongyrotropic ion distributions, in the special issue "Plasma Astrophysics and Spase Physics" of the journal *Astrophysics and Space Science*, 581-592, 1999.
30. Burinskaya T.M., A.A. Rusanov, M.M. Mogilevsky, Small-scale bursts of the Langmuir oscillations in the polar cap, *Cosmic Res.*, 38, N5, 475-482, 2000 (English version of *Kosmicheskie issledovaniya*).
31. Burinskaya T., E. Indenbom, and V. Pivovarov, Generation electrostatic nonlinear wave structures, *Phys. Chem. Earth*, 25, N1-2, 31-34, part C, 2000.
32. Burinskaya T.M. and E.M. Indenbom, Excitation of the low-frequency electrostatic oscillations in the plasma with anisotropic ions, *Plasma physics. Reports*, 26, N1, 46-53, 2000.
33. Buzulukova N.Yu., Testing of global convection models on the basis of measurements of ion spectral gaps by the ION particle spectrometer onboard the Interball-2 satellite in geomagnetically quiet periods, IKI RAN, Moscow, Preprint Pr-2009, 1999.
34. Buzulukova N.Yu., Drifting energetic ions in the inner magnetosphere during long quiet intervals: a steady flow from a distant source or from multiple substorm-like burst injections? *Proc 5<sup>th</sup> International conference on substorms*, St. Petersburg, Russia, 16-20 May 2000 (ESA SP-443, July 2000, 381-384).
35. Buzulukova N.Yu., Ion spectral gaps as a method for checking the existense of quiet-time stationary large scale convection, its models and particle source localization in the inner magneyosphere: ION spectrometer observations on the

- INTERBALL-2 satellite, *Cosmic Res.*, 38, N5, 491-501, 2000 (English version of Kosmicheskiye issledovaniya).
36. Chesalin L.S., E.Tseveenii, E.V.Lakutina, E.V.Krukovskaya, A.A.Ozolin, and D.A.Ivanov, Scientific data acquisition system (SDAS-IKI), *Cosmic Res.*, 34, N4, 381-388, 1996.
  37. Cosic J.Cl., N.Eismont, Attitude determination of the Auroral INTERBALL spacecraft: problems and solutions, *Proc. int. symp. on Space dynamics*, MS 00/51, June 26-30, Biarits, France, CNES, 2000.
  38. Dalin P.A., G.N.Zastenker, K.I.Paularena, A.J.Lazarus, Solar wind plasma correlation length from INTERBALL-1, IMP 8 and WIND data, in: *Problems of Geospace*, ed. by M.I.Pudovkin, B.P.Besser, W.Riedler, A.M.Lyatskaya, Austr. Acad. of Sci. Press, Vienna, Austria, .41-47, 1997.
  39. Dalin P.A., G.N.Zastenker, K.I.Paularena and A.J.Lazarus, A case and statistical study of solar wind ion flux correlations: IMP 8, WIND and INTERBALL-1, *Proc. of conf. WDS-97, published by Charles University, Prague*, p.219-224, 1997.
  40. Dalin P.A., A.V. Dmitriev, Yu.V. Orlov, K. Paularena, J.D. , Richardson, M.O. Ryazantseva, G.N. Zastenker, Multifactor analysis of factors controlling the solar wind correlations with the use of artificial neural network technique, *Proceedings of Intern. Symposium "From solar corona through interplanetary space into Earth magnetosphere and ionosphere: Interball, ISTP satellites and ground-based observations"*, Kyiv, Ukraine, 2000, pp. 245-248.
  41. Dalin P.A., G.N. Zastenker, K.I. Paularena, J.D. Richardson, Estimation of solar wind plasma correlation length using multipoint measurements, *Proceedings of Intern. Symposium "From solar corona through interplanetary space into Earth magnetosphere and ionosphere: Interball, ISTP satellites and ground-based observations"*, Kyiv, Ukraine, 2000, pp. 249-252.
  42. Dalin P.A., G.N. Zastenker, K.I. Paularena, J.D. Richardson, The investigation of solar wind plasma correlations using multifactorial analysis by WIND and IMP 8 measurements, *Proceedings of WDS'99, Part II, Matfyzpress, Prague, Charles University*, 197-202, 1999.
  43. Delcourt D.C., L.M.Zelenyi and J.-A.Sauvaud, Magnetic moment scattering in a field reversal with nonzero  $B_y$  component, *J. Geophys. Res.*, 105, NA1, 349-359, 2000.
  44. Dempsey D.L., L.A.Avanov, J.H.Waite, Jr., O.L.Vaisberg, J.L.Burch, S.A.Fuselier, V.N.Smirnov, A.A.Skalsky, INTERBALL Tail observations of dayside magnetopause oscillations and simultaneous Polar cusp measurements, *Geophys. Res. Lett.*, 26, N7, 963, 1999.
  45. Dokuchaev L.V., R.R.Nazirov, B.I.Rabinovich, A.I.Ul'yashin, On the concordance of the mathematical model of nutation of the INTERBALL-2 satellite, *Cosmic Res.*, 38, N5, 424-432, 2000 (English version of Kosmicheskiye issledovaniya).
  46. Dubouloz N., J.-J.Berthelier, M.Malingre, L.Girard, Yu.I.Galperin, J.Covinhas, D.Chugunin, M.Godefroy, G.Gogly, C.Guerin, J.-M.Illiano, P.Kossa, F.Leblanc, F.Legoff, T.Mularchik, J.Paris, W.Stzepourginski, F.Vivat, and L.Zinin, Thermal ion measurements on board INTERBALL Auroral probe by the HYPERBOLOID experiment, *Ann. Geophys.*, 16, 9, 1070-1085, 1998.

47. Dubouluz N., D. Delcourt, M. Malingre, J.-J. Berthelier, and D. Chugunin, Remote analysis of cleft ion acceleration using thermal plasma measurements from INTERBALL Auroral probe, *Geoph. Res. Lett.*, 25, N15, 2925-2928, 1998.
48. Dubouloz N., J.-J. Berthelier, M. Malingre, L. Girard J. Covinhes, Yu. I. Galperin et al., Effects of heating and acceleration of ionospheric ions at polar latitudes observed by the HYPERBOLOID mass-spectrometer at altitudes of 2-3 Earth's radii, *Cosmic Res.*, 36, N1, 2-13, 1998 (English version of Kosmicheskie issledovaniya, 36, N1, 3-14, 1998).
49. Dubouloz N., D. Delcourt, J.-J. Berthelier, M. Malingre, Yu. Galperin, and D. Chugunin, INTERBALL Auroral Probe studies Earth's ionized regions *EOS*, 79, N46, 563, 1998.
50. Dubouloz N., M. Bouhram, C. Senior, D. Delcourt, M. Malingre, J.-A. Sauvaud, Spatial structure of the cusp/clrft ion fountain: A case study using a magnetic ionjugacy between Interball AP and a pair of a Super DARN radars, *J. Geophys. Res.*, 106, A1, 261-274, 2001.
51. Eiges P., G. Zastenker, M. Nozdrachev and Yu. Yermolaev, Solar wind ion flux and magnetic field fluctuations in the foreshock region of the Earth's bow shock, *Proc. of conf. WDS-97, publ. of Charles University, Prague*, 213-218, 1997.
52. Eiges P.E., G.N. Zastenker, M.N. Nozdrachev, Yu. I. Yermolaev, J. Safrankova, and Z. Nemecek, Fast Variations of Solar Wind ion flux and magnetic field in the foreshock: 1. Correlation of parameters, *Cosmic Res.*, 36, N3, 235-244, 1998 (English version of Kosmicheskie issledovaniya, 36, N3, 251-260, 1998).
53. Eiges P., G. Zastenker, M. Nozdrachev, N. Rybyeva, J. Safrankova, Z. Nemecek, Observation of quasi-harmonic small-scale solar wind plasma and IMF structures in the Earth's foreshock, *Proceedings of Contribution Papers: Part II – Physics of Plasmas and Ionized Media and Surface and Interface Physics*, ed. by J. Safrankova, Praha, MFF UK, 203-208, 1999.
54. Eiges P., G. Zastenker, M. Nozdrachev, N. Rybyeva, J. Safrankova, Z. Nemecek, Observation of quasi-harmonic small-scale solar wind plasma and IMF structures in the Earth's foreshock, *Proceedings of WDS'99, Part II, Matfyzpress, Prague, Charles University*, 203-208, 1999.
55. Eiges P.E., G.N. Zastenker, M.N. Nozdrachev, Fast solar wind plasma and magnetic field fluctuations in the foreshock and magnetosheath near Earth's bow shock, *Proceedings of the Conference "Problems of Geocosmos-2", Verlag Der Osterreichischen Akademie Der Wissensthafte*, 83-88, 1999.
56. Eiges P., G. Zastenker, M. Nozdrachev, N. Rybyeva, J. Safrankova, Z. Nemecek, Multipoint observations of small-scale solar wind structures in the Earth's foreshock region, *Proceedings of Intern. Symp. "From solar corona through interplanetary space into Earth magnetosphere and ionosphere: Interball, ISTP satellites and ground-based observations"*, Kyiv, Ukraine, 253-256, 2000.
57. Eiges P.E., G.N. Zastenker, M.N. Nozdrachev, J. Safrankova, Z. Nemecek, N. Rybyeva, Fast variations of solar wind ionflux and of the magnetic field in the foreshock: 2. Quasi-harmonic structures, *Cosmic Res.*, 38, N5, 439-444, 2000 (English version of Kosmicheskie issledovaniya).
58. Eiges P.E., G.N. Zastenker, M.N. Nozdrachev, J. Safrankova, Z. Nemecek, N. Rybyeva, Fast variations of solar wind flux and the magnetic field in the

- foreshock: 2. Quasiharmonic structures, *Cosmic Research*, 38, N5, 439-444, 2000.
59. Eismont N.A., E.E.Ryazanova, V.V.Khrapchenkov, Yu.N.Agafonov, J.Klas, V.Truhlik, J.Shimunek, and J.Chum, Attitude determination and control of motion around the center of mass of a satellite and subsatellite in the INTERBALL Project, *Cosmic Res.*, 34, N4, 391-400, 1996.
  60. Eismont N.A., V.V.Khrapchenkov, A.N.Aleksandrov, P.Triska, V.Truhlik, J.Smilauer, J.Chum, and J.Klas, Peculiarities of the problems of flight dynamics and motion control of the INTERBALL project spacecraft, *Cosmic Res.*, 36, N3, 304-312, 1998 (English version of Kosmicheskie issledovaniya, 36, N3, 323-331, 1998).
  61. Eismont N.A., V.V.Khrapchenkov, P.Triska, V.Truhlik, J.Chum, Flight dynamic lessons of INTERBALL project, *Acta astronautica*, 46, N2-6, 405-414, 2000.
  62. Farrugia C.J., F.T.Gratton, J.E.Contin, R.B.Torbert, G.Zastenker, M.Nozdachev, A.Fedorov, J.M.Quinn, K.W.Ogilvie, H.K.Biernat, R.P.Lepping, Magnetopause instabilities during passage of the rear of the January 1997 magnetic cloud, *Proceedings of the Conf. "The Solar Wind-Magnetosphere System 3"*, Verlag Der Osterreichischen Akademie Der Wissensthafen, 199-208, 1999.
  63. Farrugia C.J., F.T.Gratton, J.E.Contin, C.C.Cochechi, R.A.Arnoldy, K.W.Ogilvie, R.P.Lepping, G.N.Zastenker, M.N.Nozdachev, A.Fedorov, J.-A.Sauvaud, J.T.Steinberg and G.Rostoker, Coordinated WIND, INTERBALL – Tail and ground observations of Kelvin-Helmholtz and waves at the near-tail equatorial magnetopause at dusk: January 11, 1997, *J. Geophys. Res.*, 105, NA4, 7639-7668, 2000.
  64. Fedorov A., E.Budnick, E.Dubinina, P.Song, and J.-A.Sauvaud, Plasma characteristics near exterior cusp under different orientation of interplanetary magnetic field, *Czech. J. Phys.*, 49, N4a, 711-732, 1999.
  65. Fedorov A., E. Dubinina, P. Song, E. Budnik and P. Larson J.-A.Sauvaud, Characteristics of the exterior cusp for steady southward IMF: INTERBALL observations, *J. Geophys. Res.*, 105, NA7, 15945-15957, 2000.
  66. Fedorov A., E.Yu.Budnick, On the origin of high latitude boundary layer of the Earth's magnetosphere, *Cosmic Res.*, 38, N6, 540-546, 2000 (English version of Kosmicheskiye issledovaniya).
  67. Feldstein Ya.I., and Yu.I.Galperin, Comment on "Magnetospheric source region of discrete auroras inferred from their relationship with isotropy boundaries of energetic particles by A.G.Yahnin et al.", *Ann. Geophys.*, 17, 37-41, 1999.
  68. Galeev A.A., Yu.I.Galperin, and L.M.Zelenyi, The INTERBALL Project to study solar-terrestrial physics, *Cosmic Res.*, 34, N4, 339-363, 1996.
  69. Galeev A.A., and A.M.Sadovskii, Solar wind acceleration by the dissipation of Alfvén waves, *Astrophysics and Space Science*, 264, 101-112, 1999.
  70. Galperin Yu.I., Modeling of a prebreakup arc and substorm onset by the "Minimum-B" model, in: *Interball in the ISTP Program*, ed. by D.G.Sibeck and K.Kudela, Kluwer Academic Publishers, 41-53, 1999.
  71. Galperin Yu.I., and J.-M.Bosqued, New mechanism for generating substorm onset or local auroral activation, *Cosmic. Res.*, 36, N2, 109-117, 1998, (English version of Kosmicheskiye issledovaniya, 36, N2, 115-123, 1998).

72. Galperin Yu.I., Multiscale features of substorm onset, *in: SUBSTORM 4, Internat. Confer. of Substorm-4*, ed. by S.Kokubun and Y.Kamide, Terra. Pub. Co., Tokyo, 253-258, 1998.
73. Galperin Yu.I., The second pair in the Interball quartet: Some main results, *Adv. Space Res.*, V.25, N7/8 p. 1287-1303, 2000.
74. Galperin Yu.I., An onset development according to the "Minimum-B" concept: further analysis, *Proceedings of the Conference ICS-5*, ESA, SP-443, 2000.
75. Geranios A., S.Fischer, M.Vandas, and G.Zastenker, The magnetic cloud of January 10, 1997, *Phys. Chem. Earth(c)*, 24, N1-3, 73-77, 1999.
76. Greco A., P.Veltri, G.Zimbardo, A.L.Taktakishvili, and L.M.Zelenyi, Numerical simulation of ion dynamics in the magnetotail magnetic turbulence: On collisionless conductivity, *J. Nonlinear Processes in Geophysics*, 7, N3/4, 159-166, 2000.
77. Grigoriev S.A., L.V.Zinin, Yu.I.Vasilenko and V.E.Lynovsky, Multi-ion one-dimensional MHD models of upper ionosphere dynamics: a mathematical ionospheric model with seven positive ion species, *Cosmic Res.*, 37, N5, 451-462, 1999 (English version of *Kosmicheskie issledovania*, 37, N5, 1999).
78. Grigorieva V.P., Extended magnetic structures in the solar corona and interplanetary medium, *Cosmic Res.*, 36, N3, 226-235, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N3, 241-250, 1998).
79. Grigorenko E.E., A.O.Fedorov, L.A.Avanov, and L.M.Zelenyi, Transient intermittent structures in the plasma sheet-tail lobes interface, *Proceedings of the Conference ICS-5*, 16.05.-19.05., 2000, St.-Petersburg, ESA, SP-443, 493-498, 2000.
80. Hanasz J., R.Schreiber, H. De Feraudy, M.M.Mogilevsky, and T.V.Romantsova, Observations of the upper frequency cut-offs of the auroral kilometric radiation, *Ann. Geophys.*, 16, N9, 1097-1104, 1998.
81. Hanasz J., Z.Krawczyk, M.M.Mogilevsky, R.Schreiber, H. de Feraudy, K.Dudzinski, T.V.Romantsova, W.Nowakiewicz, A.Kraynyuk, M.Barylko, A.Buczowska, J.Juchniewicz, V.N.Nazarov, N.Mikhalev, Observations of auroral kilometric radiation on the INTERBAL-2 satellite: the POLRAD experiment, *Cosmic. Res.*, 36, N6, 575-586, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N6, 617-629, 1998).
82. Hanasz J., Boudjada M., Schraiber R., Krawczyk Z., Malycha M., Mogilevsky M., Rucker H., Romantsova T., Dynamic spectra of the Stokes parameters of the dayside and nightside Auroral Kilometric Radiation, *Geophys. Res. Letters*, 27, N11, 1631-1634, 2000.
83. Hanasz J., De Feraudy H., Schreiber R., Parks K., Brittnacher M., Mogilevsky M., Romantsova T., Wide Band burst of Auroral Kilometric Radiation and their association with UV auroral bulges, *J. Geophys. Res.*, 105, N11, 234372-23448, 2000.
84. Hraban V., J.Safrankova, Z.Nemecek, Data analysis of the VDP-S measurements, *Proceedings of Contribution Papers: Part II – Physics of Plasmas and Ionized Media and Surface and Interface Physics*, ed. by J.Safrankova, Praha, MFF UK, 209-216, 1999.
85. Jacquy C., J.-A.Sauvaud, D.Popescu, H.Reme, D.G.Sibeck, S.I.Klimov, S.A.Romanov, R.P.Lepping and G.D.Reeves, Large scale response of the

- magnetotail to a substorm expansion: INTERBALL and IMP-8 observations on November 24, 1996, in: *SUBSTORM-4, Internat. Confer. of Substorm-4*, ed. by S.Kokubun and Y.Kamide, Terra Sci. Pub. Co./Kluwer Academic Publishers, 155-158, 1998.
- 86.** Kazachevskaya T.V., L.L.Bukusova, D.A.Gonykh, A.A.Nusinov, P.M.Svidsky, Measurements of short-wave solar ionizing radiation flux on the satellite INTERBALL-1, *Cosmic Res.*, 36, N3, 284-286, (English version of Kosmicheskie issledovaniya, 36, N3, 302-304, 1998).
- 87.** Kawano, H., S. Savin, A. T. Y. Lui, M. Fujimoto, S. Kokubun, T. Mukai, T. Yamamoto, Y. Saito, S. Romanov, M. Nozdrachev, and Yu. Yermolaev, Solar wind discontinuity - magnetosphere interactions observed by INTERBALL-1 and GEOTAIL: IACG Campaign #2, *Adv. Space Res.*, 25, N7/8, 1405-1409, 2000.
- 88.** Kirpichev I., A.Fedorov, and G.Zastenker, Determination of ion flow direction in the magnetosheath and cusp regions with the set of Faraday cups, Proceedings of the WDS'98 Conference, Prague, June 9-12, 1998, Ed. by J.Safrankova, part II, 187-189, 1998.
- 89.** Khodyrev V.S., A.I.Ulyashin, Yu.N.Glinkin, and A.V.Rybachev, Control of motion dynamics of the Auroral probe spacecraft in the INTERBALL project, *Cosmic Res.*, 37, N2, 125-133, 1999 (English version of Kosmicheskie issledovaniya, 37, N2, 133-142, 1999).
- 90.** Klimov S., S.Romanow, S.Savin, N.Nikolaeva, A.Skalsky, A.Petrukowicz, M.Nozdrachev, P.Triska, E.Amata, M.Ciobanu, J.Blecki, J.Juchniewicz, J.Buchner, J.Rustenbach, J.L.Rauch, Interball tail probe. Magnetospheric plasma boundaries study. *Plasma 97*, V.1, 375-378, Warszawa 1997.
- 91.** Klimov S., S. Romanov, E. Amata J. Blecki, J. Buechner, J. Juchniewicz, J. Rustenbach, P. Triska, L.J.C. Woolliscroft, S. Savin, Yu. Afanas'yev, U. de Angelis, U. Auster, G. Bellucci, A. Best, F. Farnik, V. Formisano, P. Gough, R. Grard, V. Grushin, G. Haerendel, V. Ivchenko, V. Korepanov, H. Lehmann, B. Nikutowski, M. Nozdrachev, S. Orsini, M. Parrot, A. Petrukovich, J.L. Rauch, K. Sauer, A. Skalsky, J. Slominski, J.G. Trotignon, J. Vojta and R. Wronowski, ASPI experiment: measurements of fields and waves on board the INTERBALL-1 spacecraft, *Ann. Geophys.*, 15, N5, 514-527, 1997.
- 92.** Korepanov V., Negoda O., Lizunov G., Alleyne H., Balikhin M., Blecki J., Dudkin F., Fedorov A., Juchniewicz J., Klimov S., Krassnosel'skikh V., and Lefeuvre F., Project VARIANT: current and field measurements on board SICH-1M satellite. *Adv. Space Res.*, 25, N7/8, 1337-1342, 2000.
- 93.** Korotova G.I., D.G.Sibeck, K.Takahashi, S.Kokubun, K.Kudela, T.Mukai, V.Petrov, V.Styazhkin and J.Safrankova, INTERBALL and GEOTAIL observations of fluxtransfer events, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela, Kluwer Academic Publishers, 103-112, 1999.
- 94.** Kosik J.Cl., N.Eismont, Attitude determination of the Auroral INTERBALL spacecraft: problems and solutions, *Proc. Inf. Symp. Space Dynamics MS 00/51* June 26-30, 2000, Biarritz, France, CNES.
- 95.** Kotova G., V. Bezrukikh, M. Verigin, L. Lezhen, Yu. Venediktov, V. Ivchenko, Interball 1/Alpha 3 Observations of thermal plasma in the dusk side plasmaphere, *Proceedings of International Symposium "From solar corona*



through interplanetary space, into Earth's magnetosphere and ionosphere: Interball, ISTP satellites, and ground-based observations", February 1-4, 2000, Kyiv, Ukraine, p. 305-308.

96. Kovrazhkin R.A., J.-A.Sauvaud, and D.C.Delcourt, Interball-Auroral observations of 0.1-12 keV ion gaps in the diffuse auroral zone, *Ann. Geophys.*, V.17, p.734, 1999.
97. Kovrazhkin R.A. and J.-A. Sauvaud, Dispersed ion structures in the auroral nightside magnetosphere, *ESA SP-449*, 387-392, 2000.
98. Kremnev R.S., A.I.Smirnov, and S.S.Gorkin, Brief description of the Prognoz-M2 spacecraft in the INTERBALL Project, *Cosmic. Res.*, 34, N4, 363-371, 1996.
99. Kudela K., M.Slivka, D.G.Sibeck, V.N.Lutsenko, E.T.Sarris, P.Kiraly, K.Kecskemety, J.Safrankova, and Z.Nemecek, Energetic proton fluxes within the magnetosheath and upstream from the bow shock: INTERBALL-1 data, *Czech. J. Phys.*, 49, N4a, 591-598, 1999.
100. Kuzmin A.K., Yu.I.Galperin, F.K.Shuyskaya, V.A.Stepanov, V.I.Prokhorenko, S.I.Soloviev, K.N.Chikov, and K.Palazov, The ultraviolet spectrometer UVSIPS onboard the Auroral probe satellite: an example of simultaneous measurements of intensity of the auroral OI  $\lambda 1304\text{\AA}$  and  $\lambda 1356\text{\AA}$  emissions, and particle fluxes, *Cosmic Res.*, 36, N6, 593-603, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N6, 636-647, 1998).
101. Klimov S., S.Romanov, E.Amata., J.Blecki, J.Buchner, and B.Nikutowski, ASPI experiment: Measurements of fields and waves on board the INTERBALL-1 spacecraft, *Ann. Geophys.*, 15, 514-527, 1997.
102. Kudela K., M.Slivka, D.G.Sibeck, V.N.Lutsenko, E.T.Sarris, J.Safrankova, Z.Nemecek, P.Kiraly, K.Kecskemety, Medium energy particle fluxes outside the magnetopause: INTERBALL-1 data, *Adv. Space Res.*, 25, N7-8, 1517-1522, 2000.
103. Lefeuvre F., M.Parrot, J.L.Rauch, B.Poirier, A.Masson, and M.Mogilevsky, Preliminary results from the MEMO multicomponent measurements of waves on board INTERBALL-2, *Ann. Geophys.*, 16, N9, 1117-1136, 1998.
104. Lefeuvre F., M.Parrot, M.Mogilevsky, J.L.Rauch, B.Poirier, C.Delannoy, J.P.Dume, P.Fergeau, M.Leveque, Ph.Martin, J.M.Moreau, and P.Zamora, Multicomponent measurements of wave processes aboard the Auroral Probe satellite of the INTERBALL project: the MEMO experiment, *Cosmic Res.*, 36, N6, 559-574, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N6, 600-616, 1998).
105. Lemaire J.F., and K.I.Gringauz with contributions from D.L.Carpenter and V.Bassilo, The Earth's Plasmasphere, *Cambridge University Press*, 1998.
106. Likin O.B., N.F.Pissarenko, F.Farnik, J.Ullrich, J.Sylwester, and Z.Kordylewski, On-board photometer for obtaining two-dimensional image of a solar flare with the use of soft X-rays, *Cosmic Res.*, 36, N3, 287-291, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N3, 302-310, 1998).
107. Lutsenko V.N., K.Kudela, and E.T.Sarris, The DOK-2 experiment to study energetic particles by the Tail probe and Auroral probe satellites in the INTERBALL project, *Cosmic Res.*, 36, N1, 93-102, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N1, 94-103, 1998).

108. Lutsenko V.N., and K.Kudela, Almost monoenergetic ions near the Earth's magnetosphere boundaries, *Geophys. Res. Lett.*, 26, N3, 413-416, 1999.
109. Lutsenko V.N., T.V. Grechko, K. Kudela, INTERBALL-2 and -1 observation of energy dispersion events in auroral zone for 30-500 Kev ion and electrons, was presented at ICS-5, St.Petersburg, 16-20 May, 2000, published in ESA SP-443, p. 519-522, July 2000.
110. Lutsenko V., Energetic Particles in the Magnetotail: Acceleration by the Inductive and Potential Electric Fields, *Proceedings of International Symposium "From solar corona through interplanetary space, into Earth's magnetosphere and ionosphere: Interball, ISTP satellites, and ground-based observatins*, Kiev, Ukraine, Feb. 1-4, 39, 2000.
111. Lutsenko V.N., Almost Monoenergetic Ions: New support for Alfvén Ideas on the Role of Electric Currents in Space Plasmas, *Phys. Chem. Earth (C)*, 26, No 1-3, 49-53, 2001.
112. Malingre M., N.Dubouloz, J.-J.Berthelier, Y.Galperin, D.Chugunin, S.Perraut, J.-A.Sauvaud and D.Delcourt V.Stepanov, Low energy upflowing ion events at the poleward boundary of the nightside auroral oval: High altitude Interball Auroral Probe observations, *J. Geophys. Res.*, 105, NA8, 18693-18707, 2000.
113. Malova H.V., M.I.Sitnov, L.M.Zelenyi, S.Sharma, Self-consistent model 1D current sheet: the role of drift, magnetization and diamagnetic currents, AGU, *Geophys. Monograph 118*, Magnetospheric Current Systems, 313-322, 2000.
114. Maynard N.C., S.Savin, G.A.Erickson, H.Kawano, Z.Nemecek, W.K.Peterson, J.Safrankova, I.Sandahl, J.D.Scudder, G.L.Siscoe, B.U.O.Sonnerup, D.R.Weimer, G.R.Wilson, W.W.White, and Yu.Yermolaev, Observation of the magnetospheric "sash" and its simplifications relative to solar-wind/magnetospheric coupling: A multisatellite event analysis, *J.Geophys. Res.*, 106, NA4, 6097, 2001.
115. Merka J., J.Safrankova, and Z.Nemecek, Cusp regio: The INTERBALL observation, in: *Proceedings of Contribution Papers: Physics of Plasmas and Ionized Media*, ed. by J.Safrankova, Praha, MFF UK, 56-61, 1996.
116. Merka J., J.Safrankova, and Z.Nemecek, Topology of the cusp-magnetosheath transition, in: *Proceedings of Contribution Papers: Physics of Plasmas and Ionized Media*, ed. by J.Safrankova, Praha, MFF UK, 197-203, 1997.
117. Merka J., J.Safrankova, and Z.Nemecek, The high-latitude observations of cusp-like plasma: Statistical study, *Proceedings of Contribution Papers: Part II - Physics of Plasmas and Ionized Media*, ed. by J.Safrankova, Praha, MFF UK, 203-209, 1998.
118. Merka J., J.Safrankova, and Z.Nemecek, Plasma parameters in the high-altitude cusp: INTERBALL observation, *Proceed. of ICPP 25<sup>th</sup> Conf. on Contr. Fusion and Plasma Physics*. Prague, ESA, V.22C, 1110-1113, 1998.
119. Merka J., J.Safrankova, and Z.Nemecek, INTERBALL observations of the high-altitude cusp-like plasma: A statistical study, *Czech. J. Phys.*, 49, N4a, 695-710, 1999.
120. Merka J., J.Safrankova, and Z.Nemecek, The exterior cusp: Two-point observations, *Proceedings of of Contribution Papers: Part II – Physics of Plasmas and Ionized Media and Surface and Interface Physics*, ed. by J.Safrankova, Praha, MFF UK, 217-225, 1999.

121. Merka, J, J. Safrankova, Z. Nemecek, S. Savin, A. Skalsky, High altitude cusp: INTERBALL observations, *Adv. Space Res.*, 25, N7/8, 1425-1434, 2000.
122. Merka J., J.Safrankova, and Z.Nemecek, Statistical observation of the cusp-like plasma and its dependence on interplanetary conditions, *Proceedings of of Contribution Papers: Part II – Physics of Plasmas and Ionized Media*, ed. by J.Safrankova, Praha, Matfyzpress, 198-202, 2000.
123. Milovanov A.V., L.M.Zelenyi, Functional background of the Tsallis en-tropy: "coarse-grained" systems and "kappa" distribution functions, *J. Non-linear Processes in Geophysics*, 7, N3/4, 211-221, 2000.
124. Milovanov A.V., L.M.Zelenyi, G.Zimbardo, Magnetospheric substorm on-set: topological phase transition on a critical percolating network, *Proceed-ings of the Conference ICS-5*, 16.05.-19.05., 2000, St.-Petersburg, ESA, SP-443, 183-188, 2000.
125. Milovanov A.V., L.M.Zelenyi, P.Veltri, G.Zimbardo, Self-organized branching of magnetotail current systems near the percolation threshold, *J.Geophys.Res.*, 106, NA-4, 6291-6307, 2001.
126. Milovanov A.V., L.M.Zelenyi, P.Veltri, G.Zimbardo, A.L.Taktakishvili, Geometric description of the magnetic field and plasma coupling in the near-Earth stretched tail prior to a substorm, *Atmospheric & Solar-Terrestrial Phys.*, 63, N5, 705, 2001.
127. Mogilevsky M.M., A.M.Golyavin, T.V.Aleksandrova, T.V.Romantsova, A.A.Rusanov, F.Irjicek, P.Triska, and B.Poirier, Measurements of low frequency electromagnetic field onboard the Auroral probe satellite in the INTERBALL project: the NVK-ONCH experiment, *Cosmic Res.*, 36, N6, 587-592, 1998 (English version of Kosmicheskie issledovaniya, 36, N6, 630-635, 1998).
128. Mogilevsky M.M., A.Buabdellah, B. de la Port, T.V.Alexandrova, T.V.Romantsova and F.Lefeuvre, Measurements of electromagnetic ULF fields onboard the Auroral probe satellite: the IESP experiment, *Cosmic. Res.*, 37, N2, 113-120, 1999 (English version of Kosmicheskie issledovaniya, 37, N2, 121-128, 1999).
129. Morozova E., Mogilevsky M., Hanasz J., Modeling of radiowave polarisation measurements onboard Interball-2 satellite (POLRAD experiment), *Proceed. Of contributed papers, part II*, Ed. Safrankova, Charles University, Prague, p. 187-191, 2000.
130. Mukai T. and L.M.Zelenyi, IAGG Campaign I summary report: initial results, *Adv. Space Res.*, Vol. 20, N 4/5, 939-948, 1997.
131. Nakamura, R., L.F. Bargatze, T. Mukai, T. Nagai, K.B. Baker, M.R. Hairston, P.H. Reiff, A.A. Petrukovich, M. Nozdrachev, O.A. Troshichev, Response of the midtail electric field to enhanced solar wind energy input, *J. Geophys. Res.*, 104, No. A8, 17299-17310, 1999.
132. Nazarov V.N., O.V.Batanov, A.V.Komarov, Ju.G.Krougov, A.P.Melnik, A.E.Tretiyakov, N.L.Haritonova, and G.A.Harchenko, On-line scientific telemetry data processing system of the INTERBALL project, *Cosmic Res.*, 36, N3, 313-316, 1998 (English version of Kosmicheskie issledovaniya, 36, N3, 332-336, 1998).

133. Nazarov V.N., Yu.N. Agafonov, O.V. Batanov, N.L. Kharitonova, V.V. Khrapchenkov, P. Triska, J. Simunek, and J. Smilauer, System of telemetry data processing and control of onboard equipment for subsatellites of the INTERBALL project, *Cosmic. Res.*, 37, N2, 121-124, 1999 (English version of Kosmicheskie issledovaniya, 37, N2, 12, 1999).
134. Nazirov R.R., and V.I.Prokhorenko, Situation analysis in the problems of space physics, *Cosmic Res.*, 36, N3, 292-303, 1998 (English version of Kosmicheskie issledovaniya, 36, N3, 311-322, 1998).
135. Nemecek Z., A.Fedorov, J.Safrankova and G.Zastenker, Structure of the low-latitude magnetopause: Magion-4 observations, *Ann. Geophys.*, 15, N 5, 553-561, 1997.
136. Nemecek Z., J.Safrankova, G.Zastenker and P.Triska, Multipoint study of the solar wind: INTERBALL contribution to the topic, *Adv. Space Res.*, Vol. 20, N 4/5, 659-672, 1997.
137. Nemecek Z., J.Safrankova, O.Santolik, K.Kudela and E.T.Sarris, Energetic particles in the vicinity of the dawn magnetosphere, *Adv. Space Res.*, V.20, N4/5, 851-856, 1997.
138. Nemecek Z., J.Safrankova, L.Prech, S.Kokubun, T.Mukai, D.G.Sibeck, Transient flux events in the magnetosheath, *Geophys. Res. Lett.*, 25, N8, 1273-1276, 1998.
139. Nemecek Z., J.Safrankova, L.Prech, G.Zastenker, Possible sources of plasma density fluctuations in the magnetosheath, *Proceed. of ICPP 25<sup>th</sup> Conf. on Contr. Fusion and Plasma Physics*. Prague, ESA, V.22C, 1106-1109, 1998.
140. Nemecek Z., J.Safrankova, J.Merka, L.Prech and A.Skalsky, The high-altitude cusp: Interball observations, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 125-144, 1999.
141. Nemecek Z., J.Safrankova, G.Zastenker, P.Pisof, K.Paularena, J.Richardson, Observations of the radial magnetosheath profile and a comparison with gasdynamic model predictions, *Geophys. Res. Lett.*, 27, N17, 2801-2804, 2000.
142. Nemecek Z., J. Safrankova, L. Prech, G.N. Zastenker, K.I. Paularena, S. Kokubun, Magnetosheath study: Interball observation, *Adv. Space Res.*, 25, N7/8, 1511-1516, 2000.
143. Nemecek Z., J.Merka, J.Safrankova, The tilt angle control of the outer cusp position, *Geophys. Res. Lett.*, 27, N1, 77-80, 2000.
144. Nikutowski B., J.Buchner, H.Wiechen, U.Auster, K.H.Fornacon, J.Rustenbach, S.Klimov and S.Savin, A high-latitude boundary layer crossing – INTERBALL measurements and MHD model results, *Adv. Space Res.*, 22, N1, 161-165, 1998.
145. Nikolaeva N.S., G.N.Zastenker M.N.Nozdachev, A.A.Skalsky, N.A.Eismont, J.Safrankova, Z.Nemecek, O.Santolik, P.Steinberg, G.Lazarus, A.Szabo, R.Lepping, J.-H.Shue, J.Borovsky, M.Thomsen, and L.Frank, Position and motion of the magnetopause during arrival of a magnetic cloud to the Earth on January 10 and 11, 1997, *Cosmic. Res.*, 36, N6, 526-536, 1998 (English version of Kosmicheskie issledovaniya, 36, N6, 564-575, 1998).
146. Nikolaeva N.S., G.N.Zastenker, J.Safrankova, Z.Nemecek, M.N.Nozdachev, S.A.Romanov, Yu.I.Yermolaev, and N.A.Eismont, On sources and amplitude

- of magnetopause motion, *Cosmic Res.*, 36, N6, 537-548, 1998 (English version of Kosmicheskie issledovaniya, 36, N6, 576-588).
147. Nikolaeva N.S., G.N.Zastenker, J.Shafrankova, Z.Nemechek, M.N.Nozdachev, S.A.Romanov, Yu.I.Yermolaev, and N.A.Eismont, The cause and the amplitude of the magnetopause motion, *Problems of Geospace 2, Proceed. of the 2<sup>nd</sup> International Workshop*, ed. by V.S.Semenov, H.K.Biernat, M.V.Kubysheva, C.J.Farrugia, S.M.Uhlbacher, Verlag Der Osterreichischen Akademie Der Wissenschaften, Vienna, 113-120, 1999.
  148. Nikolaeva N.S., G.N. Zastenker, N.L. Borodkova, S.I. Romanov, T. Mukai, S. Kokubun, Observations of near simultaneous crossings of magnetosphere boundaries by INTERBALL-1 and GEOTAIL satellites, *Proceedings of Intern. Symposium "From solar corona through interplanetary space into Earth magnetosphere and ionosphere: Interball, ISTP satellites and ground-based observations"*, Kyiv, Ukraine, p. 221-224, 2000.
  149. Nikolaeva N.S., G.N. Zastenker, V.I. Prokhorenko, N.L. Borodkova, Experimental comparison of the measured magnetopause positions with model predictions used for the scientific instrument's control on INTERBALL-1 satellite, *Proceedings of Intern. Symposium "From solar corona through interplanetary space into Earth magnetosphere and ionosphere: Interball, ISTP satellites and ground-based observations"*, Kyiv, Ukraine, p. 385-386, 2000.
  150. Nikolaeva N.S., G.N. Zastenker, S.I. Romanov, N.L. Borodkova, T. Mukai, S. Kokubun, Two examples of observation of nearly simultaneous motion of the magnetopause and Earth's bow shock on the INTERBALL-1 and GEOTAIL satellites, *Cosmic Res.*, 38, N5, 445-457, 2000 (English version of Kosmicheskie issledovaniya).
  151. Nikolaeva N.S., G.N. Zastenker, V.I.Prokhorenko, N.L. Borodkova, On the accuracy of a priori predictions of the magnetopause position (According to the INTERBALL project data), *Cosmic Res.*, 38, N5, 458-463, 2000 (English version of Kosmicheskie issledovaniya).
  152. Nikutowski B., J.Buechner, H.Wiechen, U.Auster, K.H.Fornakon, J.Rustenbach, S.Klimov, and S.Savin, A high-latitude boundary layer crossings - INTERBALL measurements and MHD model results, *Adv. Space Res.*, v.22, N1, 161-165, 1998.
  153. Nikutovski B., J.Buechner, S.Klimov, A.Petrukovich, S.Romanov, S.Savin, INTERBALL observations of field aligned current signatures due to collisionless reconnection, *In VIIth International Conference on Plasma Astrophysics and Space Physics*, Eds. J.Buchner, I.Axford,E.Marsch, V.Vasyliunas, Kluwer AP, Dordrecht, 687-692, 1999.
  154. Nozdachev M.N., A.A.Skalsky, V.A.Styazhkin, and V.G.Petrov, Some results of magnetic field measurements by the FM-3I flux-gate instrument onboard the INTERBALL-1 spacecraft, *Cosmic Res.*, 36, N3, 251-255, 1998 (English version of Kosmicheskie issledovaniya, 36, N3, 268-272, 1998).
  155. Ovchinnikov I.L., E.E.Antonova, Yu.I.Yermolaev, Determination of turbulent diffusion coefficient in the plasmashet using the project INTERBALL data, *Cosmic Res.*, 38, N6, 557-561, 2000 (English version of Kosmicheskie issledovaniya).

156. Parrot M., F.Lefeuvre, J.L.Rauch, O.Santolik, M.M.Mogilevsky, Propagation characteristics of auroral kilometric radiation observed by MEMO experiment on Interball 2, *J. Geophys. Res.*, 106, A1, 315-326, 2001.
157. Paularena K.I., J.D.Richardson, A.J.Lazarus, G.N.Zastenker and R.A.Dalin, IMP8, WIND and INTERBALL observations of solar wind, *Phys. Chem. Earth*, V.22, N7-8, 628-637, 1997.
158. Paularena K.I., G.N.Zastenker, A.J.Lazarus, and P.A.Dalin, Solar wind - plasma correlations between IMP 8, INTERBALL-1 and WIND, *J. Geophys. Res.*, 103, NA7, 14601-14617, 1998.
159. Paularena K.I., J.D.Richardson, G.N.Zastenker and P.A.Dalin, Solar wind correlations: using a solar wind monitor successfully, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 155-170, 1999.
160. Paularena K.I., J.D.Richardson, F.Dashevskyy, G.N.Zastenker, P.A.Dalin, A multi-spacecraft study of solar wind structure at 1 AU, in the "Physics of Sun-Earth Plasma and Field Processes", *Geophys. Monograph 109*, ed. by J.L.Burch, R.L.Carovilano, S.K.Antiochs, p.143-148, AGU, Washington, DC, 1999.
161. Paularena K.I., J.D.Richardson, G.N.Zastenker and P.A.Dalin, Solar wind correlations: Statistical and case studies, *Proceedings of the Solar Wind 9 Conference*, ed. by S.R.Habbal, R.Esser, J.V.Hollweg, Ph.A.Isenberg, American Institute of Physics, 471, 585-588, 1999.
162. Paularena K.I., J.D.Richardson, G.N.Zastenker and P.A.Dalin, Solar wind correlations: Statistical and case studies, *Proceedings of the Solar Wind 9 Conference*, ed. by S.R.Habbal, R.Esser, J.V.Hollweg, Ph.A.Isenberg, American Institute of Physics, 471, 585-588, 1999.
163. Perraut S., A.Roux, F.Darrouzet, C. de Villidary, M.Mogilevsky, and F.Lefeuvre, ULF wave measurements onboard the INTERBALL Auroral Probe. *Ann. Geophys.*, 16, N9, 1105-1116, 1998.
164. Perroomian V., M.Ashour-Abdalla and L.M.Zelenyi, Self-consistent simulation of the magnetotail in: *Substorm-4*, Internat. Confer. of Substorm-4, ed. by S.Kokubun and Y.Kamide, Terra Sci. Pub. Co./Kluwer Academic Publishers, 165-168, 1998.
165. Perroomian V., M.Ashour-Abdalla, L.M.Zelenyi and A.Petrukovich, The influence of convection on magnetotail variability, Interball observations, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 171-186, 1999.
166. Perroomian V., M.Ashour-Abdalla, L.Zelenyi, and A.Petrukovich, Intrinsic self-adjustment and variability of the magnetotail, *Proceedings of the Conference ICS-5*, 16.05.-19.05., 2000, St.-Petersburg, ESA, SP-443, 121-126, 2000.
167. Perroomian V., M.Ashour-Abdalla, L.M.Zelenyi, Intrinsic variability in the quiet-time magnetotail, AGU, *Geophys.Monograph 118*, Magnetospheric Current Systems, 305-312, 2000.
168. Petrov V., V.Styazhkin, and N.Eismont, Observations of the field-aligned currents from INTERBALL-2, *Czech. J. Phys.*, 49, N4a, 641-646, 1999.
169. Petrukovich A.A., V.A.Sergeev, L.M.Zelenyi T.Mukai, T.Yamamoto, S.Kokubun, K.Shiokawa, C.S.Deer, E.Yu.Budnik, J.Buechner, A.O.Fedorov,

- V.P.Grignorieva, T.J.Hughes, N.F.Pissarenko, S.A.Romanov, and I.Sandahl, Two spacecraft observations of reconnection pulse during the auroral breakup, *J. Geophys. Res.*, 103, NA1, 47-59, 1998.
170. Petrukovich A.A., S.A.Romanov, L.M.Zelenyi, T.Mukai, Y.Saito, T.Yamamoto, S.Kokubun, and O.A.Troshichev, Substorm-associated pressure variations in the magnetotail, in: *SUBSTORM-4, Internat. Conference of substorm*, N4, ed. by S.Kokubun and Y.Kamide, Terra Sci. Pub. Co./Kluwer Academic Publishers 199-202, 1998.
  171. Petrukovich A., S.Romanov, L.Zelenyi, T.Mukai, S.Kokubun, O.Troshichev et al., Substorm-associated pressure variations in the magnetotail, *Proceedings ICS-4*, 199-202, 1998.
  172. Petrukovich A.A., S.A.Romanov, and S.I.Klimov, Direct measurements of AC plasma currents in the outer magnetosphere, in: *Measurement Techniques in Space Plasmas: Fields. Geophysical Monograph 103*, AGU, Washington, 199-204, 1998.
  173. Petrukovich A.A., J.Wanliss, T.Mukai, T.Yamamoto, S.Kokubun, Small-amplitude bipolar flows in the near-earth tail, *In International Conference on Substorms-4*, edited by S.Kokubun and Y.Kamide, pp 207-210, Kluwer Academic Publishers, Dordrecht, 1998.
  174. Petrukovich A.A., T.Mukai, S.Kokubun, S.A.Romanov, Y.Saito, T.Yamamoto, and L.M.Zelenyi, Substorm-associated pressure variations in the magnetotail plasma sheet and lobe, *J. Geophys. Res.*, 104, A3, 4501-4513, 1999.
  175. Petrukovich A.A., J. Wanliss, T. Mukai, S. Kokubun and T. Yamamoto, Small-amplitude bipolar flows in the near-Earth tail, *Geophys. Res. Lett.*, 26, 2909-2912, 1999.
  176. Petrukovich A.A., G.N. Zastenker, S.I. Klimov, A. Lazarus, R. P. Lepping, The scheme of Space Weather forecast with the use of real-time solar wind measurements, *Proceedings of Intern. Symposium "From solar corona through interplanetary space into Earth magnetosphere and ionosphere: Interball, ISTP satellites and ground-based observations"*, Kyiv, Ukraine, p. 345-348, 2000.
  177. Petrukovich A., W.Baumjohann, R.Nakamura, T.Mukai, O.Troshichev, Small substorms: solar wind input and magnetotail dynamics, *J. Geophys. Res.*, 105, A8, 21109-21118, 2000.
  178. Petrukovich A.A., The growth phase: comparison of small and large substorms, *Proceedings of the Fifth International Conference on Substorms*, ESA SP-443, 9-14, 2000.
  179. Petrukovich A.A., E.I.Kallio, T.I.Pulkkinen, H.E.J.Koskinen, Solar wind energy input and magnetospheric substorm activity compared, *Proceedings of the Fifth International Conference on Substorms*, ESA SP-443, 67-70, 2000.
  180. Petrukovich A.A., S.I.Klimov, The use of solar wind measurements for the analysis and prediction of geomagnetic activity, *Cosmic Res.*, 38, N5, 433-438, 2000 (English version of Kosmicheskie issledovaniya).
  181. Pissarenko N.F., E.I.Morozova, V.N.Lutsenko, A.R.Moszhukhina, E.Yu.Budnik, I.Sandahl, R.Lundin, T.Pulkkinen, and H.Koskinen, Structure of the Earth's Ring Current during a Solar minimum, *Cosmic Res.*, 36, N6, 549-558, 1998 (English version of Kosmicheskie issledovaniya, 36, N6, 589-598).

182. Pissarenko N.F., I.L.Kirpichev, V.N.Lutsenko, S.P.Savin, E.Yu.Budnik, A.R.Mozshikhina, E.I.Morozova, A.E.Antonova and I.Sandahl, Cusp energetic particles observed by INTERBALL Tail Probe in 1996, *Phys. Chem. Earth.*, 26, 241-245, 2000.
183. Pissarenko N., I. Kirpichev, E. Budnik, I. Sandahl, V. Lutsenko, S. Savin, Cusp Energetic Particles Observed by Interball Tail Probe in 1996, Stockholm, Sweden, May 3-7, 1999, *Physics and Chemistry of the Earth*, 26, No 1-3, 2001.
184. Prokhorenko V.I., R.R.Nazirov, and L.M.Zelenyi, Situation analysis during long-term planning of the space experiments, *Cosmic Res.*, 36, N6, 604-613, 1998 (English version of Kosmicheskie issledovaniya, 36, N6, 648-659, 1998).
185. Pulkkinen T.I., D.N.Baker, L.L.Cogger, L.A.Frank, J.B.Sigwarth, S.Kokubun, T.Mukai, H.J.Singer, J.A.Slavin and L.M.Zelenyi, Spatial extent and dynamics of a thin current sheet during the substorm growth phase on December 10, 1996, *J. Geophys. Res.*, 104, A12, 28475-28490, 1999.
186. Pulkkinen T.I., M.V.Kubyskhina, D.N.Baker, L.M.Zelenyi, Magnetotail currents during the growth phase and local auroral breakup, AGU, *Geophys. Monograph 118*, Magnetospheric Current Systems, 81-90, 2000.
187. Raeder J., O. Vaisberg, V. Smirnov, L. Avanov, Reconnection driven lobe convection: Interball tail probe observations and global simulations, *Journal of Atmospheric and Solar-terrestrial Physics*, 62, 10, 833-849, 2000.
188. Riedler W., K.Torkar, M.Veselov, Yu.I.Galperin A.Pedersen, R.Schmidt, H.Arends, F.G.Rudenauer, M.Fehringner, S.Perraut, and L.V.Zinin, Experiment RON for active control of spacecraft electric potential, *Cosmic Res.*, 36, N1, 49-58, 1998 (English version of Kosmicheskie issledovaniya, 36, N1, 50-59, 1998).
189. Romanov V., S.Savin, S.Klimov, V.Romanov, Yu.Yermolaev, J.Blecki, R.Wronowski, Magnetic turbulence at the magnetopause, plasma penetration, *Polish J. Tech. Phys.*, 40, 329-332, 1999.
190. Romanov S.A., S.I.Klimov, S.P.Savin, Yu.I.Yermolaev, N.L.Borodkova, O.P.Verchoglydova, J.Juchniewicz, Observation of Vortex structure in plasma flows near the Earth's magnetosphere, *Cosmic Res.*, 38, N5, 464-474, 2000 (English version of Kosmicheskie issledovaniya).
191. Russel C.T., Y.L.Wang, J.Raeder, R.L.Torkar, C.W.Smith, K.W.Ogilvie, A.J.Lazarus, R.P.Lepping, A.Szabo, H.Rawano, T.Mukai, S.Savin, Y.I.Yermolaev, X.-Y.Zhou, B.T.Tsurutani, The interplanetary shock of September 24, 1998: Arrival at Earth, *J. Geophys. Res.*, 105, A11, 25143-25154, 2000.
192. Ryazantseva M.O., P.A.Dalin, A.V.Dmitriev, G.N.Zastenker, Yu.V.Orlov, K.I.Paularena, J.D.Richardson, The multifactor analysis of factors controlling the solar wind correlations with the use of artificial neural network technique, *Proceedings of WDS'99*, Part II, Matfyzpress, Prague, Charles University, 191-196, 1999.
193. Safrankova J., G.Zastenker, Z.Nemecek, A.Fedorov, M.Simersky and L.Prech, Small scale observation of magnetopause motion: preliminary results of the INTERBALL project, *Ann. Geophys.*, 15, N 5, 562-569, 1997.



194. Safrankova J., Z.Nemecek, L.Prech, G.Zastenker, A.Fedorov, S.Romanov, D.Sibeck and J.Simunek, Two point observation of magnetopause motion: the INTERBALL project, *Adv. Space Res.*, V.20, N4/5, 801-807, 1997.
195. Safrankova J., Z.Nemecek, L.Prech, G.Zastenker, N.Nikolaeva, M.Nozdachev, A.Skalsky, K.Paularena and T.Mukai, The January 10-11, 1997 magnetic cloud: Multipoint measurements, *Geophys. Res. Lett.*, 25, N14, 2549-2552, 1998.
196. Safrankova J., Z.Nemecek, D.G.Sibeck, L.Prech, J.Merka, O. Santolik, Two point observation of high-latitude reconnection, *Geophys. Res. Lett.*, 25, N23, 4301-4304, 1998.
197. Safrankova J., Z.Nemecek, and M.Borak, MAGION-4 observations of the bow shock crossings, *Czech. J.Phys.*, 49, N4a, 563-578, 1999.
198. Safrankova J., Z.Nemecek, and M.Borak, Bow shock position: Observations and models, in *Interball in the ISTP Program, Studies of the Solar Wind-Magnetosphere-Ionosphere Interaction*, ed. by D.G.Sibeck and K.Kudela, NATO Science Series C, V.537, 187-202, 1999.
199. Safrankova J., L.Prech, Z.Nemecek, D.G.Sibeck, T.Mukai, Magnetosheath response to the interplanetary magnetic field tangential discontinuity, *J. Geophys. Res.*, 105, A11, 25113-25121, 2000.
200. Safrankova J., Z.Nemecek, O.Santolik, D.G.Sibeck, G.N.Zastenker, A.Skalsky, The flank magnetopause: INTERBALL observations, *Adv. Space Res.*, 25, N7-8, 1503-1510, 2000.
201. Sandahl I., S.Barabash, H.Borg, E.Budnik, E.Dubinin, U.Eklund, H.Johansson, H.Koskinen, K.Lundin, R.Lundin, A.Mostrom, R.Pellinen, N.Pissarenko, T.Pulkkinen, P.Toivanen and A.Zakharov, First results from plasma composition spectrometer PROMICS-3 in the INTERBALL project, *Ann. Geophys.*, 15, N5, 542-552, 1997.
202. Sandahl I., R.Lundin, M.Yamauchi, U.Eklund, J.Safrankova, Z.Nemecek, K.Kudela, P.P.Leppig, R.P.Lin, V.N.Lutsenko and J.-A.Sauvaud, Cusp and boundary layer observations by INTERBALL, *Adv. Space Res.*, V.20, N4/5, 823-832, 1997.
203. Sandahl I., G. Zastenker, O. Marghitu, J. Blecki, L. Zelenyi, Z. Nemecek, J. Buechner, Yu. Agafonov, B. Nikutowski, M. Ciobanu, V. Grushin, E. Amata, M. Nozdachev, E. Dubinin, V. Khrapchenkov, S. Orsini, Yu. Yermolaev, L. Prech, M. Parrot, O. Santolik, A. Petrukovich, M. Echim, K. Kudela, A. Fedorov, N. Pissarenko, V. Formisano, S. Romanov, R. Grard, J. Rauch, V. Ivchenko, J. Rustenbach, F. Jiricek, J.A. Sauvaud, U. Auster, J. Juchniewicz, E.T. Sarris, S. Klimov, A. Skalsky, V. Korepanov, J. Smilauer, H. Koskinen, P. Triska, J.G. Trotignon, S.P. Savin, R. Lundin, O. Balan, N. Borodkova, E. Budnik, N. Nikolaeva, V. Prokhorenko, T. Pulkkinen, N. Rybjeva, J. Safrankova, G. Bellucci, J. Vojta, V. Lutsenko, A. Blagau, Interball magnetotail boundary case studies, *Adv. Space Res.*, 20, 999-1015, 1997.
204. Sandahl I., H.Koskinen, A.M.Malkki, T.I.Pulkkinen, E.Yu.Budnik, A.O.Fedorov, L.A.Frank, and J.B.Sigwarth, Dispersive magnetosheath-like ion injections in the evening sector on January 11, 1997, *Geophys. Res. Lett.*, v.25, N14, 2569-2572, 1998.

205. Sandahl I., The high and low-latitude boundary layers in the magnetotail, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 203-218, 1999.
206. Sandahl, I., B Popielavska, E. Yu. Budnick, A. Fedorov, S. Savin, J. Safrankova, Z. Nemecek, THE CUSP AS SEEN FROM INTERBALL, *Proceedings of 'Cluster II Workshop. Multiscale/Multipoint Plasma Measurements.*, Imperial College, London, Sept. 22-24, 1999, ESA/ SP-449, p. 39-45, 2000.
207. Santolik O., J.Safrankova, Z.Nemecek, J.-A.Sauvaud, A.Fedorov and G.Zastenker, Two-point measurement of hot plasma structures in the magnetotail lobes, *Adv. Space Res.*, V.20, N4/5, 993-997, 1997.
208. Santolik O., J.Safrankova, Z.Nemecek, J.-A.Sauvaud, A.Fedorov and G.Zastenker, Hot electrons in the Earth's magnetotail, in: *Proceedings of Contribution Papers: Part II – Physics of Plasmas and Ionized Media*, ed. by J.Safrankova, Praha, MFF UK, 173-181, 1997.
209. Santolik O., J.Safrankova, Z.Nemecek, J.-A.Sauvaud, A.Fedorov, and A.Skalsky, Electron fluxes in the near-Earth magnetotail, *Czech. J. Phys.*, 49, N4a, 607-624, 1999.
210. Santolik O., L.Prech, J.Safrankova, and Z.Nemecek, Electron fluxes in the magnetotail: statistical study, *Adv, Space Res.*, 25, N7-8, 1623-1628, 2000.
211. Santolik O., and M.Parrot, Application of wave distribution function methods to an ELF hiss event at high latitudes, *J. Geophys. Res.*, 105, 18885-18894, 2000.
212. Sauvaud J.-A., P.Koperski, T.Beutier, H.Barthe, C.Aoustin, J.J.Thocaven, J.Rouzaud, E.Penou, O.Vaisberg and N.Borodkova, The INTERBALL - Tail ELECTRON experiment: initial results on the low-latitude boundary layer of the dawn magnetosphere, *Ann. Geophys.*, 15, N5, 587-595, 1997.
213. Sauvaud J.-A., H.Barthe, C.Aoustin, J.J.Thocaven, J.Rouzaud, E.Penou, R.A.Kovrazhkin and K.G.Afanasiev, The ION experiment onboard the INTERBALL-AURORA satellite; initial results on velocity dispersed structures in the cleft and inside the auroral oval, *Ann. Geophys.*, 16, N9, 1056-1099, 1998.
214. Sauvaud J.-A., H.Barthe, C.Aoustin, J.J.Thocaven, E.Penou, J.Rouzaud, R.A.Kovrazhkin, K.G.Afanasiev and I.Yu.Ivanchenkova, Measurement of the suprathermal plasma by the ION spectrometer complex on the INTERBALL-2 satellite, *Cosmic Res.*, 36, N1, 59-67, 1998 (English version of Kosmicheskie issledovaniya, 36, N1, 60-68, 1998).
215. Sauvaud J.-A., D.Popescu, D.C.Delcourt, G.K.Parks, M.Brittnacher, V.Sergeev, R.A.Kovrazhkin, T.Mukai and S.Kokubun, Sporadic plasma sheet ion injections into the high-latitude auroral bulge. 1-Satellite observations, *J. Geophys. Res.*, 104, A12, 28565-28586, 1999.
216. Sauvaud J.-A. et al., Time of flight dispersed ion structures into the auroral bulge, *ESA SP-449*, 137-144, Feb. 2000.
217. Savin S.P., O.Balan, N.Borodkova et al., INTERBALL magnetotail boundary case studies, *Adv. Space Res.*, V.20, N4/5, 999-1015, 1997.
218. Savin S.P., N.L.Borodkova, E.Yu.Budnik, E.M.Dubinin, A.O.Fedorov, S.I.Klimov, V.N.Lutsenko, M.N.Nozdachev, A.A.Petrukovich,

- N.F.Pissarenko, S.A.Romanov, A.A.Skalsky, Yu.I.Yermolayev, G.N.Zastenker, L.M.Zelenyi, Yu.N.Agafonov, V.A.Grushin, V.V.Khrapchenkov, N.E.Rybjeva, P.Triska, J.Vojta, F.Jiricek, J.Smilauer, J.Safrankova, Z.Nemecek, E.Amata, G.Bellucci, V.Formisano, S.Orsini, J.-A.Sauvaud, I.Sandahl, H.Koskinen, J.Buechner, B.Nikutowski, J.Rustenbach, M.Ciobanu, O.Balan, A.Blaga, M.Echim, O.Marghitu, K.Kudela, J.Blecki, J.Juchniewicz, R.Grard, J.L.Rauch, J.G.Trotignon, L.Prech, O.Santolik, INTERBALL case magnetotail boundary study, *Adv. Space Res.*, 20, N4/5, 999-1015, 1997.
- 219.** Savin S.P., N.L.Borodkova, E.Yu.Budnik, A.O.Fedorov, S.I.Klimov, M.N.Nozdachev, E.I.Morozova, N.S.Nikolaeva, A.A.Petrukovich, N.F.Pissarenko, V.I.Prokhorenko, S.A.Romanov, A.A.Skalsky, Yu.I.Yermolaev, G.N.Zastenker, L.M.Zelenyi, P.Triska, E.Amata, J.Blecki, J.Juchniewicz, J.Buechner, M.Ciobanu, R.Grard, G.Haerendel, V.E.Korepanov, R.Lundin, I.Sandahl, U.Eklund, Z.Nemecek, J.Safrankova, J.A.Sauvaud, J.Rustenbach, and J.L.Rauch, INTERBALL Tail probe measurements in outer cusp and boundary layers, in: *Geospace Mass and Energy Flow: Results from the International Solar-Terrestrial Physics Program*, edited by J.L. Horwitz, D.L. Gallagher and W.K. Peterson, *Geophysical Monograph 104*, AGU, Washington D.C., 25-44, 1998.
- 220.** Savin S.P., S.A.Romanov, A.O.Fedorov, L.M.Zelenyi, S.I.Klimov, Yu.I.Yermolaev, E.Yu.Budnik, N.S.Nikolaeva, C.T.Russell, X.-W.Zhou, A.L.Urquhart, and P.H.Reiff, The cusp/magnetosheath interface on May 29, 1996: Interball-1 and Polar observations, *Geophys. Res. Lett.*, 25, N15, 2963-2966, 1998.
- 221.** Savin S., L.Zelenyi, E.Budnik, N.Borodkova, A.Fedorov, N.Nikolaeva, M.Nozdachev, S.Romanov, A.Petrukovich, Yu.Yermolaev, V.Romanov, T.Mukai, S.Kokubun, H.Kawano, R.Lundin, I.Sandahl, N.Maynard, E.Amata, J.Safrankova, Z.Nemecek, J.Blecki, J.Buechner, and B.Nikutowski, Manifestations of boundary layer dynamics in substorm activity: Multispacecraft study, in: *SUBSTORM-4, Internat. conf. of Substorm-4*, pp.125-130, ed by S.Kokubun and Y.Kamide, Terra. Sci. Publ. Co./Kluwer Academic Publishers, 1998.
- 222.** Savin S., E.Budnik, M.Nozdachev, V.Romanov, Yu.Yermolaev, L.Zelenyi, J.Blecki, J.Buechner, and B.Nikutowski, On the plasma turbulence and transport at the polar cusp outer border, *Czech. J. Phys.*, 49, N4a, 679-694, 1999.
- 223.** Savin S., N. Maynard , I. Sandahl, H. Kawano, C.T. Russell, L. Zelenyi, V. Romanov, IACG boundary layer campaign: current status and CLUSTER-II perspectives, *Proceedings of Cluster II Workshop. Multiscale/Multipoint Plasma Measurements.*, Imperial College, London, Sept. 22-24, 1999, ESA/SP-499, p. 335-338, 2000.
- 224.** Savin S., N.C.Maynard, I.Sandahl, H.Kawano, L.M.Zelenyi et al., IACG boundary layer campaign: current status and Cluster-II perspectives. ESA SP-449, *Proceedings of the Cluster-II Workshop. Multiscale/Multipoint Plasma Measurements*, Imperial College, London, 22-24 September, 1999, 335-338, 2000.

225. Sergeev V.A., L.I.Vagina, L.M.Zelenyi, M.L.Borodkova, Yu.I.Yermolaev, V.N.Lutsenko, K.Kudela, J.-A.Sauvaud, T.Mukai, S.Kokubun, and D.J.Williams, An event of plasma sheet heating observed by INTERBALL-1 and GEOTAIL spacecraft, *Cosmic. Res.*, 37, N2, 107-112, 1999. (English version of Kosmicheskie Issledovaniya, 37, N2, 1999).
226. Sergeev, V.A., J.-A.Sauvaud, D.Popescu, R.A.Kovrazhkin, V.N.Lutsenko, L.M.Zelenyi, M.Sirjasuo, A.Viljanen, T.I.Pulkkinen, K.Kudela, S.Kokubun, T.Mukai, Plasma sheet ion injections into the auroral bulge: Correlative study of spacecraft and ground observations, *J. Geophys. Res.*, 105, A8, 18465-18481, 2000.
227. Shevyrev N.N., Zastenker G.N., Safrankova J., Nemecek Z., Pisoft P., Statistical study of the fast ion flux variations in the magnetosheath and solar wind, in *Proceedings of contributed papers of WDS'00, Part II*, ed. by J. Safrankova, Matphyspress, Prague, 2000, p. 208-213.
228. Shevchenko M.I., I.E.Belova, M.N.Boyarsky, R.R.Nazirov, and A.A. Petrukovich, Data Archive of the INTERBALL Project, *Cosmic Res.*, 37, 563-568, 1999.
229. Sibeck D.G., N.L.Borodkova, G.N.Zastenker, S.A.Romanov, and J.-A.Sauvaud, Gross deformation of the dayside magnetopause, *Geophys. Res. Lett.*, 25, N4, 453-456, 1998.
230. Sibeck D.G. and N.L.Borodkova, Magnetospheric response to a hot flow anomaly, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 219-230, 1999.
231. Sibeck D.G., N.L.Borodkova, S.Kokubun, R.P.Lepping, R.Lin, T.Mukai, Z.Nemecek, C.J.Owen, G.Parks, T.Phan, S.A.Romanov, J.Safrankova, J.-A.Sauvaud, S.I.Schwartz, H.J.Singer, A.Szabo, K.Takahashi and G.N.Zastenker, Comprehensive study of the magnetospheric response to a hot plasma anomaly, *J. Geophys. Res.*, 104, A3, 4577-4593, 1999.
232. Sibeck D.G., K.Kudela, R.P.Lepping, R.Lin, Z.Nemecek, M.N.Nozdachev, T.-D.Phan, L.Prech, J.Safrankova, H.Singer, Y.Yermolaev, Magnetopause motion driven by interplanetary magnetic field variations, *J. Geophys. Res.*, 105, A11, 25155-25169, 2000.
233. Sibeck D.G., L.Prech, J.Safrankova, Z.Nemecek, Two point measurements of the magnetopause: INTERBALL observations, *J. Geophys. Res.*, 105, A1, 237-244, 2000.
234. Sitnov M.I., H.V.Malova, L.M.Zelenyi, Self-consistent structure of anisotropic current sheet with quasiadiabatic ion dynamics. Proceedings of the Conference "Problems of Geocosmos-2", St.-Petersburg, 29.06 - 03.07, 1998. Problems of Geospace-2, ISBN 3-7001-2811-8, 165-170, 1999.
235. Sitnov M.I., L.M.Zelenyi, H.V.Malova, A.S.Sharma, Thin current sheet embedded within a thicker plasma sheet: Self-consistent kinetic theory, *J. Geophys. Res.*, 105, A6, 13029-13044, 2000.
236. Sitnov M.I., S.Sharma, L.M.Zelenyi, and H.V.Malova, Distinctive features of forced current sheets: electrostatic effects, *Proceedings of the Conference ICS-5*, 16.05.-19.05., 2000, St.-Petersburg, ESA, SP-443, 197-200, 2000.
237. Shue J.-H., P.Song, C.T.Russell, J.T.Steinberg, J.K.Chao, G.Zastenker, O.L.Vaisberg, S.Kokubun, H.J.Singer, T.R.Detman, and H.Kawano,

- Magnetopause location under extreme solar wind conditions, *J. Geophys. Res.*, 103, NA8, 17691-17700, 1998.
238. Shuiskaya F.K., Yu.I.Galperin, R.A.Kovrazhkin, A.K.Kuzmin, V.A.Stepanov, L.S.Gorn and B.I.Khazanov, Measurement of energetic charged particles at high latitudes: the SKA-3 experiment on the Auroral probe (INTERBALL-2) satellite, *Cosmic Res.*, 36, N1, 81-92, 1998 (English version of Kosmicheskie issledovaniya, 36, N1, 82-93, 1998).
239. Slavin J.A., D.H.Fairfield, R.P.Lepping, A.Szabo, M.J.Reiner, M.Kaiser, C.J.Owen, T.Phan, R.Lin, S.Kokubun, T.Mukai, T.Yamamoto, H.J.Singer, S.A.Romanov, J.Buechner, T.Iyemori, and G.Rostoker, WIND, GEOTAIL, and GOES9 observations of magnetic field dipolarization and bursty bulk flows in the near-tail, *Geophys. Res. Lett.*, 24, N8, 971-974, 1997.
240. Smets R., D.Delcourt, J.-A.Sauvaud, and P.Koperski, Electron pitch angle distributions following the dipolarisation phase of a substorm: Interball-Tail observations and modeling, *J. Geophys. Res.*, 104, 14,571, 1999.
241. Smirnov V.N., O.L.Vaisberg, L.A.Avanov, A.A.Petrukovich, A.A.Skalsky, J.L.Burch and J.H.Waite, Observations of the fine structure of ion distribution function at the bow shock, *Adv. Space Res.*, V.20, N4/5, 735-742, 1997.
242. Slavin J.A., D.H.Fairfield, R.P.Lepping, A.Szabo, M.J.Reiner, M.Kaiser, C.J.Owen, T.Phan, R.Lin, S.Kokubun, T.Mukai, T.Yamamoto, H.J.Singer, S.A.Romanov, J.Buechner, T.Iyemori and G.Rostoker, WIND, Geotail and GOES 9 observations of magnetic field dipolarization and bursty bulk flows in the near-tail, *Geophys. Res. Lett.*, V.24, N8, p.971, 1997.
243. Stepanov V.A., Yu.I.Galperin, A.K.Kuzmin, F.K.Shuiskaya, L.S.Gorn, B.A.Ilyin, M.V.Iovlev, A.A.Klimashov, I.I.Cherkasin, B.I.Khazanov and A.Yu.Safronov, Upward high-energy field-aligned electron beams above the polar edge of auroral oval: observations from the SKA-3 instruments onboard the AURORAL PROBE (INTERBALL-2), *Ann. Geophys.*, 16, N9, 1046-1055, 1998.
244. Stepanov V.A., Particle bursts above the high latitude northern hemisphere: nightside INTERBALL-2 observations, *Czech. J. Phys.*, 49, N4a, 733-744, 1999.
245. Styazhkin V.A., V.G.Petrov, V.A.Eismont, A.Bochev, Magnetic field measurements in the INTERBALL-Auroral probe project, *Cosmic Res.*, 36, N1, 103-107, 1998.
246. Styazhkin V.A., G.N.Zastenker, V.G.Petrov, M.N.Nozdachev, A.J.Lazarus, R.P.Lepping, Strong and fast variations of the magnetosheath parameters: 2. Magnetic field variations and comparison of them with ion flux variations, *Cosmic Res.*, 37, N6, 579-587, 1999 (English version).
247. Sukhanov K.G., W.N.Karachevsky, I.D.Tserenin, M.I.Artyukhov, W.A.Molodtsov, A.I.Sheikhet, Ju.K.Zaiko, Realization of flight program of the Auroral probe spacecraft in the INTERBALL project, *Cosmic. Res.*, 36, N6, 614-620, 1998 (English version of Kosmicheskie issledovaniya, 36, N6, 660-666, 1998).
248. Surkov V.V., Yu.I.Galperin, Electromagnetic pulse in the magnetosphere generated by impulsive current near the lower boundary of the ionosphere,

- Cosmic Res.*, 38, N6, 579-587, 2000 (English version of *Kosmicheskie issledovaniya*, 37, N6, 602-612, 2000).
249. Shevchenko M.I., I.E.Belova, M.N.Boyarsky, R.R.Nasirov and A.A.Petrukovich, Data archive of INTERBALL project, *Cosmic Res.*, 37, N6, 563-568, 1999 (English version of *Russian Journal Kosmicheskie issledovaniya*, 37, N6, 598-604, 1999).
  250. Shuchtina M.A., V.A.Sergeev and S.A.Romanov, A study of the of orientation geoeffective discontinuities in solar wind, *Cosmic Res.*, 37, N6, 588-593 1999 (English version).
  251. Taktakishvili A.L., L.M.Zelenyi, V.N.Lutzenko, and K.Kudela, On the spectra of energetic particles in the Earth's Magnetotail, *Cosmic Res.*, 36, N3, 265-273, 1998 (English version of *Kosmicheskie issledovaniya*, 36, N3, 282-291, 1998).
  252. Teodosiev D., G.Stanev, G.Galev, S.Neichev, P.Pushchaev, Spherical probes for measurements of electric fields on the INTERBALL-2 satellite in the IESP-2M instrument, *Cosmic Res.*, 38, N6, 562-573, 2000 (English version of *Kosmicheskie issledovaniya*).
  253. Titova E.E., A.G.Yahnin, F.Jiricek, J.Smilauer, M.M.Mogilevsky, T.V.Romantsova, A.A.Rusanov, J.-A.Sauvaud, and R.Smith, INTERBALL-2 observations of auroral hiss and the aurora dynamics, *Czech. J. Phys.*, 49, N4a, 657-666, 1999.
  254. Torkar K., M.V.Veselov, V.V.Afonin, H.Arends, M.Fehringner, G.Fremuth, K.Fritzenwalner, Yu.I.Galperin, A.I.Kozlov, A.Pedersen, S.Perraut, W.Riedler, F.Rudenauer, R.Schmidt A.Smith, N.Valavanoglou and L.V.Zinin, An experiment to study and control the Langmuir sheath around INTERBALL-2, *Ann. Geophys.*, 16, N9, 1086-1096, 1998.
  255. Torkar K., Fehringner M., Escoubet C., Narheim B., Galperin Y., Pedersen A., Riedler W., Rudenauer F., Schmidt R., Svenes K., Veselov M., Recent experience with spacecraft potential control, *Adv. Space Res.*, 24, N8, 1033-1036, 1999.
  256. Torkar K., H.Jeszenszky, M.Veselov, S.Perraut, N.Dubouloz, C.P.Escoubet and Yu.Galperin, Spacecraft potential measurements on board of INTERBALL-2 and derived plasma densities, *Cosmic. Res.*, 37, N6, 606-614, 1999 (English version).
  257. Trattner K.J., S.A.Fuselier, W.K.Peterson, J.-A.Sauvaud, H.Stenuit, N.Dubouloz, and R.A.Kovrazhkin, On spatial and temporal structures in the cusp, *J. Geophys. Res.*, 104, A12, 28411-28422, 1999.
  258. Triska P., J.Smilauer, J.Vojta, F.Hruska, A.Czapek, Yu.N.Agafonov, N.A.Eismont, V.V.Krapchenkov, G.N.Zastenker, W.Riedler, M.Friedrich, F.Puerst, Z.Nemecek, J.Safrankova, MAGION-4 and MAGION-5 multifunctional microsatellites in the international scientific space project INTERBALL, in: *Small Satellites for Earth Observations*, ed. by H.P.Roeser, R.Sandau, and A.Valenzuela, Wissenschaft and Technik, Verlag, Berlin, 409-412, 1999.
  259. Trotignon,J.G., J.L.Rauch, S.Klimov, M.Nozdachev, S.Romanov, S.Savin, A.Skalsky, J.Blecki, J.Juchniewicz, and E.Amata. ULF waves upstream from planetary bow shocks: application to the Interball-Tail observations at the

- Earth. *Journal of Technical Physics*, Special Supplement Vol. XL No.1, 333-336, 1999.
260. Urquhart A.L., P.H.Reiff, F.R.Toffoletto, T.W.Hill, T.R.Konkel, C.T.Russell, G.Le, S.P.Savin, S.A.Romanov, Magnetic field models: Polar May 29, 1996, *J. Geophys.Res.*, 103, 17323-17332, 1998.
261. Vainshtein D.L., L.M.Zelenyi, A.I.Neishtadt and B.V.Savenkov, Jumps in an adiabatic invariant with small initial values, *Plasma physics reports*, 25, N4, 333-337, 1999 (from Russian).
262. Vainstein D.L., L.M.Zelenyi, A.I.Neistadt, B.V.Savenkov, Jumps of quasiadiabatic invariant with small initial values, *Plasma Phys. Reports*, (English edition), 25, N4, 333-337, 1999.
263. Vaisberg O., L.Avanov, V.Smirnov, J.L.Burch, A.Leibov, E.Ivanova, J.Waite, A.Klimashev, B.Khazanov, I.Cherkasin, M.Iovlev, A.Safronov, A.Kozhukhovskiy, C.Gurgiolo and V.Lichtenstein, Initial observations of fine plasma structures at the flank magnetopause with the complex plasma analyzer SCA-1 onboard the INTERBALL Tail probe, *Ann. Geophys.*, 15, N5, 570-596, 1997.
264. Vaisberg O., L.Avanov, V.Smirnov, J.L.Burch, J.H.Waite, A.Petrukovich and A.Skalsky, INTERBALL observations of the dayside magnetopause, *Adv. Space Res.*, V.20, N4/5, 789-800, 1997.
265. Vaisberg O.L., V.N.Smirnov, L.A.Avanov, J.H.Waite, J.L.Burch, C.T.Russell, A.A.Skalsky and D.L.Dempsey, Observations of isolated structures of the low latitude boundary layer with INTERBALL Tail Probe, *Geophys. Res. Lett.*, v.25, N23, 4305-4308, 1998.
266. Vaisberg O.L., J.H.Waite, L.Avanov, V.N.Smirnov, D.Dempsey, J.L.Burch and A.A.Skalsky, HFA-like signatures observed with Interball-Tail spacecraft, in: *Proceeding of the Solar wind 9 conference*, ed by S.R.Habbal, R.Esser, J.V.Hollweg, P.A.Isenberg, American Institute of Physics, 471, 551-554, 1999.
267. Vaisberg O.L. and J.H.Waite, Jr, Cooperative studies between IKI and SwRI for the INTERBALL project, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 239-264, 1999.
268. Veltri P., G.Zimbardo, A.L.Taktakishvili, and L.M.Zelenyi, Effect of magnetic turbulence on the ion dynamics in the distant magnetotail, *J. Geophys. Res.*, 103, NA7, 14897-14910, 1998.
269. Verigin M., G.Kotova, A.Remizov, V.Bezrukih, O.Plokhova, J.Slavin, A.Szabo, M.Kessel, J.Safrankova, Z.Nemecek, T.Gombosi, K.Kabin, F.Shugaev, and A.Kalinchenko, On the location and asymmetry of the terrestrial bow shock: INTERBALL-1/MAGION-4 observations, *Procced. of International Symposium, From Solar Corona Through Interplanetary Space, into Earth's Magnetosphere and Ionosphere: Interball, ISTP Satellites, and Ground-based Observations*, February 1-4, 2000, Kyiv, Ukraine, 289-293.
270. Verkhoglyadova O.P., V.N.Ivchenko, S.I.Klimov, S.A.Romanov, A.O.Fedorov, Compressional ULF waves in the dawn plasma sheet observed by the INTERBALL-Tail. Contributed papers of 1998 Int. *Congress on Plasma Physics and 25<sup>th</sup> EPS Conference on Controlled Fusion and Plasma Physics*, 22C, 1134-1137, 1998.

271. Verkhoglyadova O.P. and V.N.Ivchenko, Methodology of identification of the magnetosphere regions based on spacecraft data: experimental criteria and empirical modeling, *Kosmichna nauka i technologia*, 4, N5/16, 18-27, 1998 (in Ukrainian).
272. Verkhoglyadova O.P. and M.G.Panchenko, Comparison of the empirical models of magnetic fields in the inner magnetosphere, *Kosmichna nauka i technologia*, 5, N1, 18-23, 1999 (in Ukrainian).
273. Verkhoglyadova O.P., V.N.Ivchenko, K.Kudela, M.Slivka, V.N.Lutsenko, and S.A.Romanov, Approach to identification of the tail plasma regimes using INTERBALL-1 data, *Czech. J. Phys.*, 49, N4a, 599-606, 1999.
274. Verkhoglyadova O.P., A.V.Agapitov, V.N.Ivchenko, S.A.Romanov and Yu.I.Yermolaev, Study of vortices in the dawn plasma sheet using Interball-1 data, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 265-276, 1999.
275. Verkhoglyadova O.P., K.Kudela, V.N.Lutsenko, S.A.Romanov and M.Slivka, Identification of the plasma regimes in the magnetosphere tail on the basis of the magnetic fields and particle fluxes measurements, *Cosmic Res.*, 37, N6, 615-622, 1999 (English version).
276. Verkhoglyadova, O.P., K. Kudela, V.N. Lutsenko, S.A. Romanov, M. Slivka, Yu. I. Yermolaev, Study of ion flux tubes in the middle magnetotail with INTERBALL-1 probe, *Proceedings of International Symposium "From solar corona through interplanetary space, into Earth's magnetosphere and ionosphere: Interball, ISTP satellites, and ground-based observations*, Kiev, Ukraine, Feb. 1-4, p.213, 2000.
277. Verkhoglyadova O., K. Kudela, V. Lutsenko, S. Romanov, M. Slivka, Using Magnetotail Variability in Plasma Regime Identification, was presented at ICS-5, St.Petersburg, 16-20 May, 2000, published in ESA p. 599-602, SP-443, July 2000.
278. Voita J., and J.Hum, Sensor system for orientation determination of the MAGION-4 spacecraft, *Cosmic Res.*, 34, N4, 388-391, 1996.
279. Volosevich A.V. and Yu.I.Galperin, Nonlinear MHD theory of stationary moving structures and knoidal waves in auroral and magnetospheric plasmas: observations from Viking and search from INTERBALL, *Czech. J. Phys.*, 49, N4a, 647-656, 1999.
280. Volosevich A.V. and Yu.I.Galperin, Nonlinear waves in collisional ionospheric plasma, *Phys. Chem. Earth.*, 25, 1/2, 79-84, 2000.
281. Volosevich A.V. and Yu.I.Galperin, Nonlinear electrostatic waves and structures in collisionless magnetospheric plasma, *Phys. Chem. Earth.*, 25, 1/2, 85-92, 2000.
282. Volosevich A.V. and Yu.I.Galperin, Nonlinear electrostatic waves and moving localized structures in the outer plasmasphere and auroral magnetosphere, *Cosmic Res.*, 38, N5, 514-525, 2000 (English version of Kosmicheskiiye issledovaniya).
283. Vovchenko V.V., Yu.I.Galperin, D.V.Chugunin, N.Dubouloz, A new population of the cusp suprathermal protons formed at mid-altitudes: INTERBALL-2 measurements, *Cosmic Res.*, 38, N6, 547-556, 2000 (English version of Kosmicheskiiye issledovaniya).



284. Walker S.N., M.A. Balikhin, M.N. Nozdrachev, Ramp nonstationarity and the generation of whistler waves upstream of a strong quasiperpendicular shock, *Geoph. Res. Lett.*, V.26, N10, 1357-1360, May 15, 1999.
285. Yermolaev Yu.I., Observation of multicomponent distribution function of ions aboard the INTERBALL-Tail probe satellite, *Cosmic Res.*, 37, N6, 623-627, 1999 (English version).
286. Yermolaev Yu., A.Fedorov, O.Vaisberg, V.Balebanov, Yu.Obod, R.Jimenez, J.Fleites, L.Llera and A.Omelchenko, Ion distribution dynamics near the Earth's bow shock: first measurements with 2D ion energy spectrometer CORALL on the INTERBALL/Tail - probe satellite, *Ann. Geophys.*, 15, N5, 533-541, 1997.
287. Yermolaev Yu., G.N.Zastenker, N.L.Borodkova, R.A.Kovrazhkin, K.Kudela, V.N.Lutsenko, N.S.Nikolaeva, Z.Nemecek, M.N.Nozdrachev, J.Safrankova, J.A.Sauvaud, A.A.Skalsky and L.M.Zelenyi, Magnetic cloud event on 6-11 January, 1997: INTERBALL multi-satellite and multi-instrument observation, Proc. 31 ESLAB Symp., "Correlated Phenomena at the Sun, in the Heliosphere and in Geospace", ESTEC/ESA SP-415, 1997.
288. Yermolaev Yu.I., Observations of the plasma sheet: INTERBALL project, *Cosmic Res.*, 36, N3, 256-264, 1998 (English version of Kosmicheskie issledovaniya, 36, N3, 273-281, 1998).
289. Yermolaev Yu.I., G.N.Zastenker, M.N.Nozdrachev, A.A.Skalsky, and L.M.Zelenyi, Plasma populations in the magnetosphere during the passage of magnetic cloud on January 10-11, 1997, *Geoph. Res. Lett.*, 25, N14, 2565-2568, 1998.
290. Yermolaev Yu.I., V.A.Sergeev, L.M.Zelenyi, A.A.Petrukovich, J.-A.Sauvaud, T.Mukai, and S.Kokubun, Two spacecraft observation of plasma sheet convection jet during continuous external driving, *Geophys. Res. Lett.*, 26, N2, 177-180, 1999.
291. Yermolaev Yu.I., L.M.Zelenyi, N.L.Borodkova, R.A.Kovrazhkin, V.N.Lutsenko, A.A.Petrukovich, S.P.Savin, A.A.Skalsky, V.A.Sergeev, T.Mukai, S.Kokubun, K.Liou, C.-I.Meng, G.Parks, and J.-A.Sauvaud, Global substorm effect and convection jet under the conditions of continuous external driving: Multi-spacecraft observations on December 22-23, 1996, *Czech. J. Phys.*, 49, N4a, 625-640, 1999.
292. Yermolaev Yu. , G.Zastenker, N.Borodkova, R.Kovrazhkin, N.Nikolaeva, M.Nozdrachev, S.Savin, A.Skalsky, L.Zelenyi, Z.Nemecek, J.Safrankova, J.-A.Sauvaud, Magnetosphere response to magnetic clouds: INTERBALL multi-satellite observations, *Problems of Geospace 2, Proceed. of the 2<sup>nd</sup> International Workshop*, ed. by V.S.Semenov, H.K.Biernat, M.V.Kubyschkina, C.J.Farrugia, S.M.Uhlbacher, Verlag Der Osterreichischen Academie Der Wissenschaften, Vienna, 129-134, 1999.
293. Yermolaev Yu. , G.Zastenker, N.Borodkova, R.Kovrazhkin, N.Nikolaeva, M.Nozdrachev, S.Savin, A.Skalsky, L.Zelenyi, Z.Nemecek, J.Safrankova, J.-A.Sauvaud, Magnetosphere response to magnetic clouds: INTERBALL multi-satellite observations, *Phys. Chem. Earth (C)*, 25, N1-2, 177-180, 2000.

294. Yermolaev Y., Zastenker G., INTERBALL multi-satellite observations of magnetosphere response to the solar wind events, *Proc. 5th Intern. Confer. on Substorms*, (ESA SP-443), p.107-110, 2000.
295. Yermolaev Yu., Petrukovich A., Structure and Dynamics of the Earth's Plasma Sheet: The INTERBALL observations *Proc.9th Annual Conference "Week of doctoral students 2000"*, *Mathphyspress*, Charles University, Prague, Czech Republic, p.203-207, 2000.
296. Yermolaev Yu., L. Zelenyi, T. Mukai, V. Sergeev, N. Borodkova, S. Kokubun, R.Kovrazhkin, K.Liou, C.-I.Meng, G.Parks, A.Petrukovich, J.-A.Sauvaud, Multi-spacecraft observations of series of substorms on December 22-23, 1996, *Adv. Space Res.*, 25, 1697-1701, 2000.
297. Yermolaev Yu., G.Zastenker, L.Zelenyi et al., Statistic study of magnetosphere response to magnetic clouds: INTERBALL multi-satellite observations, *Phys. Chem. Earth*, 25, N1-2, 177-180, 2000.
298. Yermolaev Yu.I., A.A.Petrukovich, L.M.Zelenyi, E.E.Antonova, I.L.Ovchinnikov and V.A.Sergeev, Investigation of the structure and dynamics of plasmasheet Corall-experiment of the INTERBALL project, *Cosmic Res.*, 38, N1, 2000 (English version).
299. Yermolaev Yu.I., G.N.Zastenker, N.S.Nikolaeva, The Earth's magnetosphere response to solar wind events according to the INTERBALL project data, *Cosmic. Res.*, 38, N6, 527-539, 2000 (English version of Kosmicheskie issledovaniya).
300. Zastenker G.N., P.A.Dalin, A.G.Lazarus, and K.I.Paularena, Correlation of solar wind parameters measured simultaneously by several spacecraft, *Cosmic. Res.*, 36, N3, 214-225, 1998 (English version of Kosmicheskie issledovaniya, 36, N3, 228-240, 1998).
301. Zastenker G.N., M.Nozdachev, J.Safrankova, Z.Nemecek, K.I.Paularena, A.J.Lazarus, R.P.Lepping, and T.Mukai, Fast solar wind plasma and magnetic field variations at the magnetosheath, *Czech. J. Phys.*, V.49, N4a, 579-590, 1999.
302. Zastenker G.N., J.Safrankova, Z.Nemecek, K.I.Paularena, A.O.Fedorov, I.P.Kirpichev and N.L.Borodkova, Large and fast variations of the magnetosheath parameters: 1. Variations of ion flux and other plasma characteristics, *Cosmic Res.*, 37, N6, 569-578, 1999 (English version).
303. Zastenker G.N., Nozdachev, Z.Nemecek, J.Safrankova, L.Prech, K.I.Paularena, A.J.Lazarus, R.P.Lepping and T.Mukai, Plasma and magnetic field variations in the magnetosheath: Interball-1 and ISTP spacecraft observations, *Interball in the ISTP program*, eds D.G. Sibeck and K.Kudela. Kluwer Academic Publishers, 277-294, 1999.
304. Zastenker G.N., P.E.Eiges, M.N.Nozdachev, V.N.Lutsenko, Yu.I.Yermolaev, J.Safrankova, Z.Nemecek, K.I.Paularena, J.D.Richardson, R.P.Lepping, T.Mukai, S.Kokubun, Solar wind modifications in the foreshock, *Proceedings of the Solar Wind 9 Conference*, ed. by S.R.Habbal, R.Esser, J.V.Hollweg, Ph.A.Isenberg, American Institute of Physics, 471, 555-558, 1999.
305. Zastenker G.N., P.A.Dalin, K.I.Paularena, J.D. Richardson, A.J.Lazarus, F.Dashevskiy, Statistical study of solar wind plasma correlations by multi-spacecraft data, "Problems of Geocosmos-2", *Proceedings of the 2<sup>nd</sup>*

- International Workshop*, ed. by V.S.Semenov, H.K.Biernat, M.V.Kubyschkina, C.J.Farrugia, S.M.Uhlebacher, *Verlag Der Osterreichischen Academie Der Wissenschaften*, 77-82, 1999.
306. Zastenker G.N., P.A. Dalin, A.A. Petrukovich, M.N. Nozdrachev, S.A. Romanov, K.I. Paularena, J.D. Richardson, A.J. Lazarus, R.P. Lepping, A. Szabo, Solar wind structure dynamics by multipoint observations, *Phys. Chem. Earth (C)*, 25, N1-2, 137-140, 2000.
  307. Zastenker G.N., P.A. Dalin, K.I. Paularena, J.D. Richardson, F. Dashevskiy, Solar wind correlation features obtained from multi-spacecraft study, *Adv. Space Res.*, 26, N1, 71-76, 2000.
  308. Zastenker G.N., A.O.Fedorov, Yu.W.Sharko, K.A.Moldosanov, P.A.Dalin, I.P.Kirpichev, L.S.Kim and M.A.Samsonov, Peculiarities of usage of integral Faraday cups aboard the INTERBALL-1: reduction of photocurrent and determination of the incoming angles and the ion velocity in the solar wind and the magnetosheath, *Cosmic Res.*, 38, N1, 20-27, 2000 (English version).
  309. Zelenyi L.M. and J.-A.Sauvaud, INTERBALL-1: first scientific results, *Ann. Geophys.*, 15, N5, 511-514, 1997.
  310. Zelenyi L.M., P.Triska and A.A.Petrukovich, INTERBALL - dual probe and dual mission, *Adv. Space Res.*, V.20, N4/5, 549-557, 1997.
  311. Zelenyi L.M., and A.V.Milovanov, and G.Zimbardo, Multiscale magnetic structure of the distant tail: self-consistent fractal approach, *New Perspectives on the Earth's Magnetotail, Geophysical Monograph 105*, 321-339, 1998.
  312. Zelenyi L.M., A.A.Petrukovich, E.Yu.Budnick, S.A.Romanov, V.A.Sergeev, T.Mukai, T.Yamamoto, S.Kokubun, K.Shiokawa, C.S.Deehr, J.Buchner, I.Sandahl, Substorm onset models and observations, in: *SUBSTORM-4, Internat. Conference, of Substorm*, N4, ed. by S.Kokubun and Y.Kamide, Terra Sci. Pub. Co./Kluwer Academic Publishers, 327-330, 1998.
  313. Zelenyi L.M., A.Taktakishvili, V.N.Lutsenko, K.Kudela, INTERBALL observations of the energetic particle spectra in the plasma sheet: indirect evidence of the multiple explosive-like spontaneous reconnection, in: *SUBSTORM-4, Internat. Conference of Substorm-4*, ed. by S.Kokubun and Y.Kamide, Terra Sci. Pub. Co./Kluwer Academic Publishers, 521-526, 1998.
  314. Zelenyi L., G. Zastenker, P. Dalin, P. Eiges, N. Nikolaeva, J. Safrankova, Z. Nemecek, P. Triska, K. Paularena, J. Richardson, Variability and structures in the solar wind-magnetosheath-magnetopause by multiscale multipoint observations, *Proceedings Cluster II Workshop*, London, ESA SP-449, pp.29-38, 2000.
  315. Zelenyi L.M., Yu.I.Galperin, M.V.Veselov, S.P.Savin et al., Methods of small scale multi-satellite measurements for project ROY, *Proceedings of 'Cluster II Workshop. Multiscale/Multipoint Plasma Measurements.*, Imperial College, London, Sept. 22-24, 1999, ESA/SP-499, 249-256, 2000.
  316. Zelenyi L., G. Zastenker, P. Dalin et al., Variability and structures in the solar wind-magnetosheath-magnetopause by multiscale multipoint observations, ESA SP-449, *Proceedings of the Cluster-II Workshop. Multiscale/Multipoint Plasma Measurements*, Imperial College, London, 22-24 September, 1999, 29-38, 2000.

317. Zelenyi L.M., M.I.Sitnov, H.V.Malova, S.Sharma, Thin and superthin ion current sheets. Quasi-adiabatic and nonadiabatic models. *J. Nonlinear Processes in Geophysics*, 7, N3/4, 127-139, 2000.
318. Zimbardo G., A.Greco, P.Veltri, A.L.Taktakishvili, A.V.Milovanov, and L.M.Zelenyi, Ion dynamics in the pre-substorm phase: influence of magnetic turbulence and of the normal component of the magnetic field, *Proceedings of the Conference ICS-5*, 16.05.-19.05., 2000, St.-Petersburg. ESA, SP-443, 225-228, 2000.
319. Zinin L.V., Yu.I.Galperin, S.A.Grigoriev and T.M.Mularchik, On measurements of polarization jet effects in the outer plasmasphere, *Cosmic Res.*, 36, N1, 39-48, 1998 (English version of Kosmicheskie issledovaniya, 36, N1, 40-49, 1998).
320. Zinin L.V., S.A.Grigoriev, D.V.Chuginin, Yu.I.Galperin, V.E.Lynovsky, I.Yu.Vasilenko, K.S.Latyshev and N.Dubouloz, Multi-ion one-dimensional MHD models for dynamics of the high-latitude ionosphere. 2. Ion fountain in the cusp/cleft: comparison of the TUBE-7 model with measurements by the HYPERBOLOID mass-spectrometer on board the INTERBALL-2 satellite, *Cosmic Res.*, 38, N1, 2000 (English version).

## In English (Accepted):

1. Afonin V.V., V.N.Alexeyev, A.N.Erasov, I.B.Ievenko, V.L.Khalipov, A.V.Kondabarov, and A.E.Stepanov, Satellite and ground-based measurements of the SAR-arc phenomena, *Physics and Chemistry of the Earth*, 1999 (in press).
2. Ashour-Abdalla M., M.El-Alaoui, V.Perroomian, R.J.Walker, L.M.Zelenyi, L.A.Frank and W.R.Paterson, Localized reconnection and substorm onset on December 22, 1996, *subm. to Geophys. Res. Lett.*, 1999.
3. Antonova E.E., N.Yu.Ganyshkina, Inner magnetosphere currents and their role in magnetospheric dynamics, *Phys. Chem Earth*, 1999 (in press).
4. Antonova E.E., I.L.Ovchinnikov, Medium scale magnetospheric turbulence and quasi-three-dimensional plasma sheet modeling, *Physics and Chemistry of the Earth*, 1999 (in press).
5. Antonova E.E., Large scale magnetospheric turbulence and magnetospheric current topology, *Adv. Space Res.*, 1999 (in press).
6. Antonova E.E., I.L.Ovchinnikov, Quasi three dimensional modeling of plasma sheet with medium scale developed turbulence, *Adv. Space Res*, 1999 (in press).
7. Antonova E.E., I.L.Ovchinnikov, M.V.Stepanova, E.V.Vichreva, M.V.Teltsov, Plasma sheet electron temperature distribution and its possible reason, *Adv. Space Res*, 1999 (in press).
8. Antonova E.E., N.Yu.Ganyshkina, Auroral bulge formation as the result of the flux tube volume isoline mapping, *Adv. Space Res*, 1999 (in press).
9. Antonova E.E., Plasma pressure distribution in the inner magnetosphere and the applicability of Dessler-Parker-Scopke relation to storm time magnetic disturbance description, *Adv. Space Res*, 1999 (in press).
10. Antonova E.E., V.F.Bashkirov, N.Yu.Ganyshkina, Quiet time distribution of plasma pressure in the geomagnetic trap, *Adv. Space Res*, 1999 (in press).
11. Antonova E.E., E. Yu. Budnik, V.N. Lutsenko, N.F. Pissarenko, Space Weather Prediction Problem and the Distribution of the Plasma Pressure in the Magnetosphere, was presented at Space Storms and Space Weather Hazards. Crete, Greece, June 19-29, 2000, *to be published in Journal of Atmospheric Chemistry*, 2000.
12. Avakov L.A., V.N.Smirnov, J.H.Waite, S.A.Fuselier and O.L.Vaisberg, High latitude reconnection in sub Alfvén flow: Interball Tail observations on 29 May, 1996, *J. Geophys. Res.*, submitted, 2001.
13. Bezrukikh V.V., M.I.Verigin, G.A.Kotova, L.A.Lezhen, Yu.I.Venediktov, and J.Lemaire, Dynamics of the plasmasphere and plasmopause under the action of intense geomagnetic storms, submitted to *J. Atmosph. Solar. Terr. Phys.*, 1999.
14. Bezrukikh V.V., G.A.Kotova, L.A.Lezhen et al., Dynamics of the plasmasphere and plasmopause under the action of intense geomagnetic storms. *J. Atmosph. Solar. Terr. Phys.*, V.62, 2001.
15. Borodkova A.G., K.Yahnin, Liou K., Sauvaud J.-A., Fedorov A.O., Lutsenko V.N., Nozdrachev M.N., Lyubchikh A.A., Plasma sheet fast flows and auroral dynamics during substorm: a case study, *Ann. Geophys.*, submitted, 2001.
16. Bouhram M., N.Dubouloz, M.Hamelin, S.A.Grigoriev, M.Malingre, K.Torkar et al., Electrostatic interaction between INTERBALL-2 and the ambient plasma.

1. Determination of the spacecraft potential from current calculations, submitted to *Ann. Geophys.*, 2001.
17. Buechner J., J.-P.Kuska, B.Nikutowski, S.Romanov, S.Savin, Hall effect in reconnection - kinetic simulations and INTERBALL-1 observations, *Adv. Space Res.* 1999 (in press).
18. Buechner J., J.-P.Kuska, B.Nikutowski, S.Romanov, S.Savin, Hall effect in reconnection - kinetic simulations and INTERBALL-1 observations, *submitted to Adv. Space Res.* 1999.
19. Buzulukova N.Yu., Yu.I.Galperin, R.A.Kovrazhkin, A.Glazunov, G.Vladimirova, H.Stenuit, J.-A.Sauvaud, D.C.Delcourt, Two types of ion spectral gaps in the quiet inner magnetosphere: INTERBALL-2 observation and modelling, submitted to *Ann. Geophys.*, 2001.
20. De Keyser J., F.Darrouzet, M.Roth, O.L.Vaisberg, N.Rybjeva, V.Smirnov, L.Avanov., Z.Nemecek, and J.Safrankova, Transients at the dawn and dusk side magnetospheric boundary: Surface waves or isolated plasma blobs?, *accepted in J Geophys. Res.*
21. Delcourt D.C., N.Dubouloz, J.-A.Sauvaud and M.Malingre, On the origin sporadic keV ion injections observed by Interball-Auroral during the expansion phase of a substorm, *J. Geophys. Res.*, 1999 (in press).
22. Eiges P., G.Zastenker, M.Nozdachev, N.Rybyeva, J.Safrankova, Z.Nemecek, Small scale solar wind ion flux and IMF quasi-harmonical structures in the Earth's foreshock: INTERBALL-1 and MAGION -4 observations, *Adv. Space Res.*, submitted, 2000.
23. Fuselier S.A., J.H.Waite, L.A.Avanov, V.N.Smirnov, O.L.Vaisberg, G.Siscoe and C.T.Russell, Characteristics of magnetosheath plasma in the vicinity of the high altitude cusp, *Planet. Space Sci.*, submitted, Jan. 2001.
24. Galperin Yu.I., Multiscale features in the auroral plasmas, submitted to *J. Atm. Solar Terr. Phys.*, 2001.
25. Galperin Yu.I., Polarization jet: Characteristics and a model, submitted to *Ann. Geophys.*, 2001.
26. Kotova G.A., V.V.Bezrukikh, M.I.Verigin, L.A.Lezhen, N.A.Barabanov, INTERBALL 1 / ALPHA 3 cold plasma measurements in the evening plasmasphere: quiet and disturbed magnetic conditions, submitted to *Adv. Space Res.*, 2000.
27. Kotova G.A., V.V.Bezrukikh, M.I.Verigin, L.A.Lezhen, Temperature and density variations in the dusk and dawn plasmasphere as observed by INTERBALL TAIL in 1999-2000, submitted to COSPAR Colloquium seria, 2001.
28. Kudela K., M. Slivka , D.G. Sibeck , V.N. Lutsenko , E.T. Sarris , P. Kiraly, K. Kecskemety, J. Safrankova, Z. Nemecek, Medium energy particle fluxes in magnetosheath and in the upstream region: Interball-1 statistical study, *Advances in Space Res.*, 1999.
29. Kudela K., V. N. Lutsenko, D.G. Sibeck, M. Slivka, Energetic Ions upstream of the Earth's Bow Shock: INTERBALL-1 Survey, *Adv. Sp. Res.*, 2001.
30. Kudela K., D.G.Sibeck, M. Slivka, V. N. Lutsenko, T.V. Gretchko, E.T. Sarris, High Energy Particle Dispersion Events Observed by Interball-1 and -2,

- COSPAR 2000, July 16-23, Warsaw, Poland., *to be published in Adv. Sp. Res.*, 2001.
31. Kudela K., V.N. Lutsenko, D.G. Sibeck, M. Slivka, Energetic ions upstream of the earth's bow shock: INTERBALL-1 SURVEY, COSPAR 2000, July 16-23, Warsaw, *to be published in Adv. Sp. Res.*, 2001.
  32. Lutsenko V.N., T.V. Gretchko, A.V. Kobelev, and K. Kudela, Dispersion Structures in the Energetic Ion and Electron Spectra in the Auroral Regions: Nature, *Properties, Implications*, 26-th General Assembly of EGS, Nice, 25-30 March, 2001. To be published in Proceedings of COSPAR-ESA Colloquium, 2001.
  33. Lutsenko V.N., T.V. Gretchko, A.V. Kobelev, V. A. Styazhkin, and K. Kudela, «Wavy» Energetic Ion Dispersion Events and PC5 Type Magnetic Field Pulsations in Auroral Zones, 26-th General Assembly of EGS, Nice, France, 25-30 March, 2001. To be published in Proceedings of COSPAR-ESA Colloquium, 2001.
  34. Merka J, J.Safrankova, Z.Nemecek, Cusp-like plasma in high altitudes: A statistical study of the width and location of the cusp from MAGION-4, *Annales Geophysicae*, submitted, 2001.
  35. Milovanov A.V., and L.M.Zelenyi, Fracton excitations as a driving mechanism for the self-organized dynamical structuring in the Solar Wind, *Astronomy and Astrophysics*, 1998 (in press).
  36. Milovanov A.V., and L.M.Zelenyi, Functional background of the Tsallis entropy: Implication of the long-range correlations, *J. Stat. Physics*, 1998 (in press).
  37. Milovanov A.V., L.M.Zelenyi, Fracton excitations as a driving mechanism for self-organized dynamical structuring in the Solar Wind, *Proceedings of the Conference on Plasma Astrophysics*, Lindau, Germany, May, 1998, *Astrophys. Space Sci.*, 1999 (in press).
  38. Milovanov A.V., L.M.Zelenyi, Nonequilibrium stationary states of the Earth's tail: Self-consistent plasma kinetics and nonthermal distribution functions, *Proceedings COSPAR*, 2001 (in press).
  39. Nemecek Z., J.Safrankova, G.N.Zastenker, and P.Pisoft, Statistical study of ion flux fluctuations in the magnetosheath, *Czech. J. Phys.*, in print, 2001.
  40. Nemecek Z., J.Safrankova, G.N.Zastenker, P.Pisoft, and K.I.Paularena, Spatial distribution of the magnetosheath ion flux, *Adv. Space Res.*, in print.
  41. Nemecek Z., J.Safrankova, G.N.Zastenker, P.Pisoft, K.Jelinek, Low-frequency variations of the ion flux in the magnetosheath, *Planet. Space Sci.*, submitted, 2001.
  42. Nikutowski B., J.Buechner, S.Klimov, A.Petrukovich, S.Romanov and S.Savin, INTERBALL observations of fields aligned current signatures due to collisionless reconnection, in *VIIth International Conference on Plasma Astrophysics and Space Physics*, eds. J.Buechner, I.Axford, E.Marsch, V.Vasyliunas, submitted, 1999.
  43. Ovchinnikov I.L., E.E.Antonova, Yu.I.Yermolaev, Turbulence in the plasma sheet during substorms: case study on the basis of INTERBALL/TAIL observations and modeling, *submitted to Ann. Geophys.*, 2001.

44. Perroomain V., M.Ashour-Abdalla and L.M.Zelenyi, Intrinsic variability in the quiet-time magnetotail, *Subm. to AGU monograph "Magnetotail currents"*, 1999.
45. Perroomian V., L.M.Zelenyi, D.Schrifer, Imprints of small-scale nonadia-batic particle dynamics on large-scale properties of dynamical magnetotail equilibria. *Advances of Space Research* (submitted 2001). (Proceedings of COSPAR symposium D35. Multiscale structure of plasma processes in critical magnetospheric regions). 2001 (in press).
46. Petrukovich A.A., W.Baumjohann, R.Nakamura, R.Schoedel, T. Mukai, Are earthward bursty bulk flows convective or field-aligned?, *accepted to JGR*, 2001.
47. Petrukovich A.A., A.Lazarus, R.P.Lepping, S.I.Klimov, Comparison of the solar wind energy input to the magnetosphere measured by Wind and Interball-1, *accepted to JASTP*, 2001.
48. Petrukovich A.A., Yu.I.Yermolaev, Vertical Ion flows in the plasma sheet:INTERBALL-Tail observations, *accepted to Ann. Geo.*, 2001.
49. Pissarenko N.F., A.R.Moszhukhina, and E.I.Morozova, Forecasting of radiation conditions in the Earth's magnetosphere and in the interplanetary space, *submitted to Proceedings of ESA Sp-456*, 1998.
50. Pulkkinen T.I., M.V.Kubyshkina, D.N.Baker, L.L.Cogger, S.Kokubun, T.Mukai, H.J.Singer, J.A.Slavin, L.M.Zelenyi, Magnetotail currents during the growth phase and local auroral breakup, *Subm. to AGU monograph "Magnetotail currents"*, 1999.
51. Safrankova J., L.Prech, Z.Nemecek, D.G.Sibeck, and T.Mukai, The structure of hot flow anomalies in the magnetosheath, *Adv. Space Res.*, submitted, 2000.
52. Safrankova J., J.Merka, and Z.Nemecek, Plasma flow across the cusp – magnetosheath boundary under northward IMF, *Adv. Space Res.*, submitted, 2000.
53. Safrankova J., Z.Nemecek, S.Dusik, L.Prech, D.G.Sibeck, and N.N.Borodkova, The magnetopause shape and location: A comparison of the INTERBALL and GEOTAIL observations with models, *Annales Geophysicae*, submitted, 2001.
54. Sandahl I., E.Budnik, N.Pissarenko, E.Dubinin, A.Zakharov, H.Borg, H.Koskinen, A.Malkki, K.Lundin, R.Lundin, R.Pellinen, T.Pulkkinen, L.Zelenyi, First results from the hot plasma instrument PROMICS-3 on INTERBALL-2, *Ann. Geophys.*, 1999 (in press).
55. Santolik O., F.Lefeuvre, M.Parrot, and J.L.Rauch, Complete wave-vector directions of electromagnetic emissions: Application to INTERBALL-2 measurements in the night-side auroral zone, *J.Geophys. Res.*, submitted, 2000.
56. Savin S., I.Sandahl, H.Kawano, N.Maynard, S.Romanov, L.Zelenyi, E.Amata, J.Blecki, E.Budnik, N.Borodkova, J.Buechner, C.Cattell, J.Fedder, S.Fuselier, R.Grard, G.Haerendel, J.Juchniewicz, S.Klimov, S.Kokubun, V.Korepanov, M.Mogilevsky, T.Mukai, Z.Nemecek, B.Nikutowski, M.Nozrdachev, G.Parks, W.Peterson, J.Pickett, J.Rauch, V.Romanov, T.Romantsova, C.T.Russell, J.Safrankova, J.A.Sauvaud, J.Scudder, A.Skalsky, F.K.Shuyskaya, V.Stepanov, P.Triska, T.Yamamoto, Yu.Yermolaev, X.-W.Zhou, Interface between Cusp/Cleft and MSH: IACG Campaign 2 first results, *Ann. Geophys.*, 2000 (in press).



57. Savin S., I.Sandahl, H.Kawano, L.M.Zelenyi et al., Interface between Cusp/Cleft and MSH: IACG Campaign 2 first results, *Adv. Space Res.*, 1999 (in press).
58. Savin S., L.M.Zelenyi, N.C.Maynard, I.Sandahl, H.Kawano, C.T.Russell, S.Romanov, J.Blecki, S.Klimov, E.Amata, G.Consolini, F.Marcucci, Z.Nemecek, B.Nikutowski, J.Picket, J.Rauch, V.Romanov, J.Safrankova, A.Skalsky, K.Stasiewicz, P.Song, and Yu.Yermolaev, Multi-spacecraft Tracing of Turbulent Boundary Layer, *Adv. Space Res.*, submitted, 2000.
59. Savin S., J.Blecki, N.Pissarenko, V.Lutsenko, I.Kirpichev, E.Budnik, N.Borodkova, M.Nozdachev, L.Zelenyi, V.Romanov, I.Sandahl, J.-A.Sauvaud, C.T.Russell, J.Buechner, B.Nikutowski, G.Gustafsson, K.Stasiewicz, V.Korepanov, Accelerated particles from turbulent boundary layer, *Proceedings of COSPAR/ESA Colloquium*, Warsaw, February 2001, (in press).
60. Sitnov M.I., H.V.Malova, and L.M.Zelenyi, Self-consistent structure of anisotropic current sheet with quasi-adiabatic ion dynamics, *Problems of Geospace*, 1999 Springer Verlag, Berlin (in press).
61. Taktakishvili A.L., L.M.Zelenyi, A.Greco, G.Zimbardo, P.Veltri, Ion dynamics in the turbulent magnetotail-hidden influence of average closed field line topology, *Proceedings of COSPAR Colloquia Series*, 2001 (in press).
62. Vaisberg O.L., V.N.Smirnov, L.A.Avanov, J.H.Waite, J.L.Burch, Different types of LLBL as observed by Interball Tail probe, *accepted in J.Geophys. Res.*, 2001.
63. Vanshtein D.L., L.M.Zelenyi and A.I.Neishtadt, On the motion of charged particles in the magnetospheric tail in the field of monochromatic wave, *Plasma physics reports*, 1999 (in press from Russian).
64. Verigin M.I., G.A.Kotova, J.Slavin, A.Szabo, M.Kessel, J.Safrankova, Z.Nemecek, T.I.Gombosi, K.Kabin, F.Shugaev, and A.Kalinchenko, Analysis of the 3-D shape of the terrestrial bow shock by INTERBALL-1/MAGION-4 observations, *Adv. Space Res.*, submitted, 2000.
65. Verigin M.I., G.A.Kotova, J.Slavin, A.Szabo, M.Kessel, J.Safrankova, Z.Nemecek, T.I.Gombosi, K.Kabin, F.Shugaev, and A.Kalinchenko, Analysis of the 3-D shape of the terrestrial bow shock by Interball/Magion 4 observations, in *33<sup>rd</sup> COSPAR Scientific Assembly, 16-23 July 2000, Warsaw, Poland, Program Book*, Warsaw, 106, 2000 (accthtnd. to *Adv. Space Res.*, 2001).
66. Verkhoglyadova O., A.Agapitov, A.Andrushchenko, V.Ivchenko, S.Klimov, S.Romanov, and Yu.Yermolaev, Compressional wave events in the dawn plasma sheet observed by INTERBALL-1, *submitted to Ann. Geoph.*, 1998.
67. Volosevich A.V., and Yu.I.Galperin, Nonlinear waves in collisional ionospheric plasmas, *Physics and Chemistry of the Earth.*, 1999 (in press).
68. Yahnin A.G., V.A.Sergeev, M.V.Kubysheva, T.I.Pulkkinen, K.Liou, C.-I.Meng, V.Angelopoulos, N.L.Borodkova, T.Mukai, S.Kokubun, Timing and location of phenomena during auroral breakup: a case study, *submitted for the Proceedings of COSPAR-ESA-COLLOQUIUM*, 2001.
69. Yermolaev Yu.I., A.A.Petrukovich, and L.M.Zelenyi, INTERBALL statistic study of ion flow fluctuations in the plasma sheet, *submitted to Adv. Space Res.* (as Proc. COSPAR'00), 2000.

70. Yermolaev Yu.I., G.N.Zastenker, N.S.Nikolaeva, J.-A.Sauvaud, K.M.Ogilvie, Magnetosphere response to magnetic clouds: Multi-satellite observations during 1995-1998, submitted to *Ann. Geophys.*, 2001.
71. Zastenker G.N., M.N.Nozdachev, J.Safrankova, Z.Nemecek, K.I.Paularena, J.D.Richardson, R.P.Lepping, T.Mukai, Multispacecraft measurements of plasma and magnetic field variations in the magnetosheath: Comparison with Spreiter models and motion of the structures, *Planet. Space Sci.*, submitted, 2001.
72. Zelenyi L.M., D.Delcourt, H.V.Malova, A.S.Sharma, V.Yu.Popov, A.A.Bykov, Forced current sheets in the Earth's magnetotail: its role and evolution due to nonadiabatic particle scattering, *Proceedings of COSPAR*. February 6-10, 2001 (in press).

## In Russian:

1. Агафонов Ю.Н., Я.Войта, П.Триска, В.В.Храпченков. Субспутники проекта ИНТЕРБОЛ. *Космич. исслед.*, 34, №4, 371-380, 1996.
2. Афонин В.В., О.С.Акеньтиева, Я.Шмилауэр, И.Шимунек. Первые результаты измерений тепловой плазмы в проекте Авроральный зонд. *Космич. исслед.*, 36, №1, 16-32, 1998.
3. Афонин В.В., Акеньтиева О.С., Шмилауэр Я. Компоненты тепловой и сверхтепловой плазмы ( $E < 15$  eV) в высокоширотных областях магнитосферы на высотах 2-3  $R_E$  по измерениям на спутнике ИНТЕРБОЛ-2. *Космич. исслед.*, 38, №5, 515-523, 2000.
4. Безруких В.В., Н.А.Барабанов, Ю.И.Венедиктов, В.И.Жданов, В.И.Ивченко, Г.А. Котова, Л.А.Лежен, С.А.Оржинский, В.И.Прохоренко. Исследование малоэнергичной плазмы в магнитосфере Земли на Хвостовом и Авроральном зондах. Аппаратура и предварительные результаты. *Космич. исслед.*, 36, №1, 33-41, 1998.
5. Безруких В.В., М.И. Веригин, Г.А. Котова, Л.А. Лежен, Ж. Лемер, Ю.И. Венедиктов. Динамика плазмопаузы и распределения концентрации холодной плазмы в плазмосфере Земли в процессе развития геомагнитных бурь по результатам эксперимента Авроральный зонд/Альфа-3. *Космич. исслед.*, 38, №5, 536-548, 2000.
6. Бисноватый-Коган Г., Шорохов О. Эволюция функции распределения электронов и спектра их излучения в магнитном поле. *Астрон. журнал*, Т.77, 9, 703-712, 2000.
7. Бородкова Н.Л., Д.Г.Сайбек, Г.Н.Застенкер, С.А.Романов, Ж.-А.Сово. Быстрая деформация дневной магнитопаузы. *Космич. исслед.*, 36, №3, 261-267, 1998.
8. Будник Е., А.Федоров, И.Сандал. Первые результаты работы плазменного масс-спектрометра ПРОМИКС-3 в проекте ИНТЕРБОЛ (Авроральный зонд). *Космич. исслед.*, 36, №1, 73-85, 1998.
9. Бузулукова Н.Ю. Тестирование моделей крупномасштабной конвекции по измерениям ионных провалов спектрометрическим комплексом ИОН спутника ИНТЕРБОЛ-2 в геомагнитно-спокойное время. Препринт ИКИ РАН Пр-2009, 1999.
10. Бузулукова Н. Ионные спектральные провалы как способ проверки существования стационарной крупномасштабной конвекции, ее моделей и локализации источника частиц во внутренней магнитосфере в спокойное время: наблюдения спектрометра ИОН со спутника ИНТЕРБОЛ-2. *Космич. исслед.*, Т.38, N5, 524-535, 2000.
11. Буринская Т.М., Е.М.Инденбом, В.В.Пивоваров. Возбуждение уединенных электростатических волн в хвосте магнитосферы Земли. *Космич. исслед.*, 36, №3, 292-301, 1998.
12. Буринская Т.М., А.А.Русанов, М.М.Могилевский. Мелкомасштабные всплески ленгмюровских колебаний в полярной шапке. *Космич. исслед.*, 38, №5, 507-514, 2000.

13. Вовченко В.В., Ю.И.Гальперин, Д.В.Чугунин, Н.Дюбулоз. Новая популяция сверхтепловых протонов каспа, формирующаяся на средних высотах: измерения на ИНТЕРБОЛ-2. *Космич. исслед.*, Т.38, №6, 585-595, 2000.
14. Волосевич А.В, Ю.И.Гальперин. Формирование нелинейных электростатических волн и локализованных структур в авроральной магнитосфере. *Вестник Могилевского Государственного университета*, №6, Беларусь, 1999.
15. Волосевич А.В, Ю.И.Гальперин. Нелинейные электростатические волны и движущиеся локализованные структуры во внешней плазмосфере и в авроральной магнитосфере. *Космич. исслед.*, Т.38, №5, 549-560, 2000.
16. Войта Я., Я.Хум. Система датчиков для определения ориентации спутника МАГИОН-4. *Космич. исслед.*, 34, №4, 388-390, 1996.
17. Галеев А.А., Ю.И.Гальперин, Л.М.Зеленый. Проект ИНТЕРБОЛ по исследованиям в области солнечно-земной физики. *Космич. исслед.*, 34, №4, 339-362, 1996.
18. Григорьева В.П. Протяженные магнитные структуры в солнечной короне и межпланетной среде. *Космич. исслед.*, 36, №3, 241-250, 1998.
19. Григорьев А.Ю, А.О.Федоров, Е.Ю.Будник, Н.С.Николаева. Магнитосферное магнитное поле в районе внешнего каспа. Сравнение измерений спутника ИНТЕРБОЛ-1 и модели. *Космич. исслед.*, Т.37, №6, 631-637, 1999.
20. Докучаев Л.В., Б.И.Рабинович. Анализ возмущенного движения вблизи границы устойчивого вращающегося КА типа Авроральный зонд проекта ИНТЕРБОЛ. *Космич. исслед.*, 37, №6, 589-597, 1999.
21. Докучаев Л.В., Р.Р.Назиров, Б.И.Рабинович, А.И.Ульяшин. О согласовании математической модели нутации спутника ИНТЕРБОЛ-2 с летным экспериментом. *Космич. исслед.*, 38, №5, 454-462, 2000.
22. Дюбулоз Н., Ж.-Ж.Бертелье, М.Малингр, Л.Жирар, Ж.Ковин, Ю.И.Гальперин, Д.Чугунин, М.Годефруа, Ж.Гогли, К.Герен, Ж.М.Илиано, П.Косса, Ф.Лебланк, Ф.Легофф, Т.М.Мулярчик, Ж.Пари, В.Сцепуржинский, Ф.Виват, Л.В.Зинин. Наблюдения эффектов нагрева и ускорения ионосферных ионов в полярных широтах масс-спектрометром ГИПЕРБОЛОИД на высотах 2-3 радиуса Земли. *Космич. исслед.*, 36, №1, 4-15, 1998.
23. Ермолаев Ю.И., Наблюдения плазменного слоя в проекте ИНТЕРБОЛ. *Космич. исслед.*, 36, №3, 273-281, 1998.
24. Ермолаев Ю.И. Наблюдения многокомпонентной функции распределения ионов на спутнике ИНТЕРБОЛ/Хвостовой Зонд. *Космич. исслед.*, Т.37, №6, 662-667, 1999.
25. Ермолаев Ю.И., Г.Н.Застенкер, Н.С.Николаева. Реакция магнитосферы Земли на события в солнечном ветре по данным проекта ИНТЕРБОЛ. *Космич. исслед.*, 38, №6, 563-576 2000.
26. Ермолаев Ю.И., А.А.Петрукович, Л.М.Зелёный, Е.Е.Антонова, И.Л.Овчинников, В.А.Сергеев. Исследования структуры и динамики плазменного слоя в эксперименте КОРАЛЛ проекта Интербол. *Космич. исслед.*, Т.38, №1, 16-22, 2000.

27. Ермолаев Ю.И., М.Ю.Ермолаев. О некоторых статистических взаимосвязях солнечных, межпланетных и геомагнитосферных возмущений в период 1976 – 2000 гг. Принято в Космич. исслед., 39, 2001.
28. Застенкер Г.Н., П.А.Далин, А.Дж.Лазарус, К.И.Пауларена. Сопоставление параметров солнечного ветра, измеренных одновременно на нескольких космических аппаратах. *Космич. исслед.*, 36, №3, 228-240, 1998.
29. Застенкер Г.Н., Я.Шафранкова, З.Немечек, К.И.Паулрена, А.О.Федоров, И.П. Кирпичев, Н.Л.Бородкова. Большие и быстрые изменения параметров в магнитослое: 1. Вариации потока ионов и других характеристик плазмы. *Космич. исслед.*, 37, №6, 605-615, 1999.
30. Застенкер Г.Н., А.О.Федоров, Ю.В.Шарко, К.А.Молдосанов, П.А.Далин, И.П.Кирпичев, Л.С.Ким, М.А.Самсонов. Особенности использования интегральных цилиндров Фарадея на спутнике ИНТЕРБОЛ-1: снижение фототока и определение углов прихода и скорости потока ионов в солнечном ветре и магнитослое. *Космич. исслед.*, Т.38, №1, 23-30, 2000.
31. Застенкер Г.Н., З.Немечек, Я.Шафранкова. Изучение быстрых и больших вариаций плазмы солнечного ветра и магнитного поля в магнитослое: от ИНТЕРШОК до ИНТЕРБОЛ. *Сборник трудов конференции «Интеркосмос-30»*, 2001 (в печати).
32. Зеленый Л.М., М.И.Ситнов, Х.В.Малова. Формирование тонких токовых слоев: роль парамагнитных процессов в неадиабатической плазме. *Сб. трудов, посвященных 30-летию ИКИ БАН*, 2000.
33. Зеленый Л.М., М.И.Ситнов, Х.В.Малова. Структура одномерного токового слоя: роль диа- и парамагнитных токов. *Сб. памяти Б.А.Тверского, М. МГУ*, 2000.
34. Зинин Л.В., Ю.И.Гальперин, С.А.Григорьев, Т.М.Мулярчик. Об измерениях эффектов поляризационного джета во внешней плазмосфере. *Космич. исслед.*, 36, №1, 42-52, 1998.
35. Зинин Л.В., С.А.Григорьев, Д.В.Чугунин, Ю.И.Гальперин, В.Э.Лыновский, И.Ю.Василенко, К.С.Латышев, Н.Дюбулоз. Многоионные одномерные МГД - модели динамики высокоширотной ионосферы. 2.Ионный фонтан в каспе/клефте: сравнение модели TUBE-7 с измерениями масс-спектрометром ГИПЕРБОЛОИД на спутнике ИНТЕРБОЛ-2. *Космич. исслед.*, Т.38, №1, 5-15, 2000.
36. Казачевская Т.В., Л.Л.Букусова, Д.А.Гонюх, А.А.Нусинов, П.М.Свидсий. Измерение потока коротковолнового ионизирующего излучения Солнца на спутнике ИНТЕРБОЛ-1 (Хвостовой зонд). *Космич. исслед.*, 36 №3, 302-304, 1998.
37. Кирпичев И., А.Федоров, А.Григорьев, Е.Будник, Е.Дубинин. Квазизахват заряженных частиц в районе локального минимума магнитного поля во внешнем каспе. *Космич. исслед.*, Т.37, №6, 638-643, 1999.
38. Козлов А.И., Ю.И.Гальперин, В.А.Гладышев, Т.М.Мулярчик. Эксперимент АНОД для долговременной проверки солнечных панелей на орбите спутника ИНТЕРБОЛ-2. *Космич. исслед.*, Т.37, №6, 573-580, 1999.
39. Корепанов В.С., С.Д.Михайлова, М.Н.Ноздрачев. Температурный режим на борту КА ИНТЕРБОЛ. *Космическая наука и технология*, Украина, Т.5, №1, 112-116, 1999.

40. Кремнев Р.С., А.И.Смирнов, С.С.Горкин. Краткое описание космического аппарата ПРОГНОЗ-М2 в проекте ИНТЕРБОЛ. *Космич. исслед.*, 34, №4, 363-370, 1996.
41. Кузьмин А.К., Ю.И.Гальперин, Ф.К.Шуйская, В.А.Степанов, В.И.Прохоренко, С.И.Соловьев, К.Н.Чиков, К.Палазов. УФ-спектрометр УФСИПС на спутнике Авроральный зонд: пример одновременных измерений интенсивности авроральных  $\lambda 1304$  E и  $\lambda 1356$  E [01] эмиссий и потоков частиц. *Космич. исслед.*, 36, №6, 636-647, 1998.
42. Курильчик В.Н., В.С.Прокудина. Исследование всплесков длинноволнового радиоизлучения по наблюдениям на ИСЗ ИНТЕРБОЛ-1. Принято в *Космич. исслед.*, 39, 2001.
43. Лефевр Ф., М.Парро, М.М.Могилевский, Ж.-А.Рош, Б.Пуарье, Ж.-П.Дюмэ, П.Фержино, М.Левек, Ф.Мартин, Ж.-М.Моро, П.Замора, Т.В.Романцова. Многокомпонентные измерения волновых процессов на борту спутника Авроральный зонд проекта ИНТЕРБОЛ: эксперимент МЕМО. *Космич. исслед.*, 36, №6, 600-616, 1998.
44. Ликин О.Б., Н.Ф.Писаренко, Ф.Фарник, И. Уллрих, Я.Сильвестер, З.Корделевский. Бортовой фотометр, строящий двумерное изображение солнечной вспышки с использованием мягкого рентгеновского излучения. *Космич. исслед.*, 36, №3, 305-310, 1998.
45. Луценко В.Н., К.Кудела, Е.Т.Саррис. Эксперимент ДОК-2 по изучению энергичных частиц на Хвостовом и Авроральном зондах проекта ИНТЕРБОЛ. *Космич. исслед.*, 36, №1, 98-107, 1998.
46. Малова Х., Л.М.Зеленый, Д.Делькур, С.Шарма. Структура самосогласованных тонких токовых слоев с учетом процессов неадиабатического рассеяния. *Сборник трудов конференции «Интеркосмос-30»*, 2001 (в печати).
47. Могилевский М.М., А.Буабделах, Б. Де ла Порт, Т.В.Александрова, Т.В.Романцова, Ф.Лефевр. Измерения электромагнитных УНЧ колебаний на спутнике Авроральный зонд; эксперимент ИЭСР. *Космич. исслед.*, Т.37, №2, 121-128, 1999.
48. Могилевский М.М., А.М.Голявин, Т.В.Александрова, Т.В.Романцова, А.А.Русанов, Ф.Иржичек, П.Триска, Б.Пуарье. Измерения низкочастотных электромагнитных полей на спутнике Авроральный зонд проекта ИНТЕРБОЛ: эксперимент НВК-ОНЧ. *Космич. исслед.*, 36, №6, 630-635, 1998.
49. Назаров В.Н., О.В.Батанов, А.В.Комаров, Ю.Г.Кругов, А.П.Мельник, А.Е.Третьяков, Н.Л.Харитонов, Г.А.Харченко. Система оперативной обработки научной телеметрической информации проекта ИНТЕРБОЛ. *Космич. исслед.*, 36, №3, 332-336, 1998.
50. Назаров В.Н., Ю.Н.Агафонов, О.В.Батанов, Н.Л.Харитонов, В.В.Храпченков, П.Триска, И.Шимунек, Я.Шмилауэр. Система обработки телеметрической информации и управления бортовой аппаратурой субспутников проекта ИНТЕРБОЛ. *Космич. исслед.*, 37, №2, 129-132, 1999.
51. Назиров Р.Р., В.И.Прохоренко. Ситуационный анализ в задачах космической физики. *Космич. исслед.*, 36, №3, 311-322, 1998.

52. Николаева Н.С., Г.Н.Застенкер, М.Н.Ноздрачев, А.А. Скальский, Н.А.Эйсмонт, Я.Шафранкова, З.Немечек, О. Сантолик, Д.Стейнберг, А.Лазарус, А. Сабо, Р.Леппинг, Джи-Хонг Шу, Дж.Боровски, М.Томсен, Л.Франк. Анализ положения и движений магнитопаузы во время прихода к Земле магнитного облака 10 и 11 января 1997 г. *Космич. исслед.*, 36, №6, 564-575, 1998.
53. Николаева Н.С., Г.Н.Застенкер, Я.Шафранкова, З.Немечек, М.Н.Ноздрачев, С.А.Романов, Ю.И.Ермолаев, Н.А.Эйсмонт. Об источниках и амплитуде движения магнитопаузы. *Космич. исслед.*, 36, №6, 576-588, 1998.
54. Николаева Н.С., Г.Н.Застенкер, В.И.Прохоренко, Н.Л.Бородкова. О погрешности априорных предсказаний положения магнитопаузы (по материалам проекта ИНТЕРБОЛ). *Космич. исслед.*, Т.38, №5, 488-493, 2000.
55. Николаева Н.С., Г.Н.Застенкер, С.И.Романов, Н.Л.Бородкова, Т.Мукаи, С.Кокубун. О двух примерах наблюдения почти одновременного движения магнитопаузы и ударной волны на спутниках ИНТЕРБОЛ-1 и GEOTAIL. *Космич. исслед.*, Т.38, №5, 475-487, 2000.
56. Ноздрачев М.Н., А.А.Скальский, В.А.Стяжкин, В.Г.Петров. Некоторые результаты измерений магнитного поля на спутнике ИНТЕРБОЛ-1. *Космич. исслед.*, 36, №3, 268-272, 1998.
57. Овчинников И.Л., Е.Е.Антонова, Ю.И.Ермолаев. Определение коэффициента турбулентной диффузии в плазменном слое по данным проекта ИНТЕРБОЛ. *Космич. исслед.*, Т.38, №6, 596-601, 2000.
58. Петрукович А.А., С.И.Климов. Использование измерений солнечного ветра для анализа и прогноза геомагнитной активности. *Космич. исслед.*, Т.38, №5, 463-468, 2000.
59. Писаренко Н.Ф., Е.И.Морозова, В.Н.Луценко, А.Р.Мозжухина, Е.Ю.Будник, И.Сандал, П.Лундин, Т.Пулккинен, Х. Коскинен. Структура околосолнечного кольцевого тока в период солнечного минимума. *Космич. исслед.*, 36, №6, 589-599, 1998.
60. Прохоренко В.И., Р.Р.Назирова, Л.М.Зеленый. Ситуационный анализ при долгосрочном планировании космических экспериментов. *Космич. исслед.*, 36, №6, 648-659, 1998.
61. Прохоренко В.И., Н.П.Беляева, В.А.Степаньянц. К вопросу об оценке точности расчета движения космических аппаратов проекта ИНТЕРБОЛ. *Космич. исслед.*, 37, №6, 581-585, 1999.
62. Прохоренко В.И. Геометрическое исследование решений ограниченной круговой двукратно осредненной задачи трех тел. Принято в *Космич. исслед.*, 39, 2001.
63. Ридлер В., К.Торкар, М.В.Веселов, Ю.И.Гальперин, А. Педерсен, Р.Шмидт, Х.Арендс, Ф.Г.Руденауэр, М.Ферингер, С.Перро, Л.В.Зинин. Эксперимент РОН по активному регулированию электростатического потенциала космического аппарата. *Космич. исслед.*, 36, №1, 53-62, 1998.
64. Романов С.А., С.И.Климов, С.П.Савин, Ю.И.Ермолаев, Н.Л.Бородкова, О.П.Верхоглядова, Ю. Юхневич. Наблюдение вихревой структуры в потоках плазмы вблизи магнитосферы Земли. *Космич. исслед.*, Т.38, №5, 494-506, 2000.

65. Рудакова М.М., М.И.Артюхов, В.А.Молодцов, С.И.Поздняков. Длительные прохождения тени Земли спутником ИНТЕРБОЛ-1. *Космич. исслед.*, 37, №6, 586-588, 1999.
66. Сергеев В.А., Л.И.Вагина, Л.М.Зеленый, Н.Л.Бородкова, Ю.И.Ермолаев, В.Н.Луценко, К.Кудела, Ж.-А.Сово, Т.Мукаи, С.Кокубун, Д.Дж.Вильямс. Случай нагрева плазменного слоя по исследованиям со спутников ИНТЕРБОЛ-1 и GEOTAIL. *Космич. исслед.*, 37, №2, 115-120, 1999.
67. Сово Ж.А., А.Барт, К.Аустен, Ж.Ж.Токавен, Э.Пену, Ж.Рузо, Р.А.Ковражкин, К.Г.Афанасьев, И.Ю.Иванченкова. Измерения сверхтепловой плазмы спектрометрическим комплексом ИОН на спутнике ИНТЕРБОЛ-2 (Авроральный зонд). *Космич. исслед.*, 36, №1, 63-72, 1998.
68. Стяжкин В.А., В.Г.Петров, Н.А.Эйсмонт, А.Бочев. Магнитные измерения в проекте ИНТЕРБОЛ – Авроральный зонд. *Космич. исслед.*, 36, №1, 108-112, 1998.
69. Стяжкин В.А., Г.Н.Застенкер, В.Г.Петров, М.Н.Ноздрачев, А.Дж.Лазарус, Р.П.Леппинг. Большие и быстрые изменения параметров в магнитослое 2. Вариации магнитного поля и сравнение их с вариациями потока ионов. *Космич. исслед.*, 37, №6, 616-624, 1999.
70. Суханов К.Г., В.Н.Карачевский, И.Д.Церенин, М.И.Артюхов, В.А.Молодцов, А.И.Шейхей, Ю.К.Зайко. Выполнение программы полета КА Авроральный зонд проекта ИНТЕРБОЛ. *Космич. исслед.*, 36, №6, 660-666, 1998.
71. Тактакишвили А.Л., Л.М.Зеленый, В.Н.Луценко, К.Кудела. О спектрах энергичных частиц в магнитосфере Земли. *Космич. исслед.*, 36, №3, 282-291, 1998.
72. Торкар К., Г.Джезенски, М.В.Веселов, С.Перро, Н.Дюбулоз, С.П.Эскубе, Ю.И.Гальперин. Измерение электрического потенциала спутника ИНТЕРБОЛ-2 относительно плазмы и основанное на нем определение концентрации электронов. *Космич. исслед.*, Т.37, №6, 644-653, 1999.
73. Федоров А., Е.Будник. Образование высокоширотного пограничного слоя магнитосферы Земли. *Космич. исслед.*, Т.38, №6, 2000.
74. Ханаш Я., З.Кравчик, М.М.Могилевский, Р.Шрайбер, Э.Де Фероди, К.Дудинский, Т.В.Романцова, В.Новакевич, А.Крайнюк, М.Барылка, А.Бучковска, Ю.Юхневич, В.Н.Назаров, Н.И.Михалев. Наблюдение аврорального километрового излучения на спутнике ИНТЕРБОЛ-2: эксперимент ПОЛЬРАД. *Космич. исслед.*, 36, №6, 617-629, 1998.
75. Ходыров В.С., А.И.Ульяшин, Ю.Н.Глинкин, А.В.Рыбачев. Управление динамикой движения КА Авроральный зонд проекта ИНТЕРБОЛ. *Космич. исслед.*, 37, №2, 133-142, 1999.
76. Чесалин Л.С., Э.Цэвээний, Е.В.Лакутина, Е.В.Круковская, А.А.Озолин, Д.А.Иванов. Система сбора научной информации (ССНИ-ИКИ). *Космич. исслед.*, 34, №4, 381-387, 1996.
77. Чесалин Л.С., Е.Е.Рязанова, Е.В.Лакутина. Локализация сбоев бортового процессора в магнитосфере и их автоматическое исправление на спутнике ИНТЕРБОЛ-2. *Космич. исслед.*, 37, №6, 567-572, 1999.
78. Шевченко М.И., И.Э.Белова, М.Н.Боярский, Р.Р.Назирова, А.А.Петрукович. Архив данных проекта ИНТЕРБОЛ. *Космич. исслед.*, 37, №6, 598-604, 1999.



79. Шуйская Ф.К., Ю.И.Гальперин, Р.А.Ковражкин, А.К.Кузьмин, В.А.Степанов, Л.С.Горн, Б.И.Хазанов. Измерения энергичных заряженных частиц на высоких широтах: эксперимент СКА-3 на спутнике ИНТЕРБОЛ-2 (Авроральный зонд). *Космич. исслед.*, 36, №1, 86-97, 1998.
80. Шухтина М.А., В.А.Сергеев, С.А.Романов. Исследование ориентации геоэффективных разрывов в солнечном ветре. *Космич. исслед.*, 37, ;6, 625-630, 1999.
81. Эйгес П.Е., Г.Н.Застенкер, М.Н.Ноздрачев, Ю.И.Ермолаев, Я.Шафранкова, З.Немечек. Быстрые флуктуации потока ионов солнечного ветра и магнитного поля в форшоке: 1. Корреляция параметров. *Космич. исслед.*, 36, №3, 251-260, 1998.
82. Эйгес П.Е., Г.Н.Застенкер, М.Н.Ноздрачев, Я.Шафранкова, З.Немечек, Н.Е.Рыбьева. Быстрые флуктуации потока ионов солнечного ветра и магнитного поля в форшоке: 2. Квази-гармонические структуры. *Космич. исслед.*, Т.38, №5, 469-474, 2000.
83. Эйгес П.Е., Г.Н.Застенкер, Я.Шафранкова, З.Немечек, Н.А.Эйсмонт. Статистический подход к оценке средней корреляционной длины и скорости распространения среднemasштабных вариаций плазмы в области околоземного форшока. *Сборник трудов конференции «Интеркосмос-30»*, 2001 (в печати).
84. Эйсмонт Н.А., Е.Е.Рязанова, В.В.Храпченков, Ю.Н.Агафонов, Я.Клас, В.Труглик, И.Шимунек, Я.Хум. Определение ориентации и управление движением около центров масс спутника и субспутника проекта ИНТЕРБОЛ. *Космич. исслед.*, 34, №4, 391-399, 1996.
85. Эйсмонт Н.А., В.В.Храпченков, А.Н.Александров, П.Триска, В.Труглик, Я.Шмилауер, Я.Хум, Я.Клас. Особенности задач динамики полета и управления движением космических аппаратов проекта ИНТЕРБОЛ. *Космич. исслед.*, 36, №3, 323-331, 1998.
86. Эйсмонт Н.А., В.В.Храпченков, И.Э.Белова, Е.Е.Рязанова, Ж.-К.Козик. Определение ориентации спутников проекта ИНТЕРБОЛ при ограничениях на состав измерений. . *Космич. Исслед*, 39, 2001.