

**List of joint publications worked out in the framework of the DFG-PAS  
collaboration project 436-113-80 during 1999-2001**

1. H.Scherer, M.Bzowski, H.J.Fahr, D.Rucinski - „Improved analysis of interplanetary HST Lyman Alpha spectra using time-dependent modelling”, *Astronomy and Astrophysics*, Vol. 342, 601-609 (1999)
2. H.J.Fahr, D.Rucinski - „Neutral interstellar gas atoms reducing the solar wind Mach number and fractionally neutralizing the solar wind”, *Astronomy and Astrophysics*, Vol. 350, 1071-1078 (1999)
3. A.Czechowski, H.Fichtner, T.Kausch – „ACR modulation beyond the heliospheric shock”, Proceedings of the 26<sup>th</sup> Int. Cosm. Ray Conf., Salt Lake City, USA, 17-25 August, 1999, Vol.7, 523-526 (1999)
4. A.Czechowski, H.Fichtner, S.Grzedzielski, M.Hilchenbach, K.C.Hsieh, J.R.Jokipp, T.Kausch, J.Kota, A.Shaw – „Low energy ACR beyond the termination shock as a source of energetic neutrals: Models and observations”, Proceedings of the 26<sup>th</sup> Int. Cosm. Ray Conf., Salt Lake City, USA, 17-25 August, 1999, Vol.7, 589-592 (1999)
5. A.Czechowski, H.J.Fahr, H.Fichtner, T.Kausch – „Preaccelerated pick-up ions, anomalous cosmic rays, and the associated ENA fluxes”, Proceedings of the 26<sup>th</sup> Int. Cosm. Ray Conf., Salt Lake City, USA, 17-25 August, 1999, Vol.7, 464-467 (1999)
6. M.Bzowski, H.J.Fahr, D.Rucinski - „Ionisation induced heat flow in the heliospheric hydrogen: virtues and flaws of hydrodynamic treatments”, *Astrophysical Journal*, Vol. 544, 496-507 (2000)
7. H.Fichtner, A.Czechowski, H.J.Fahr, G.Lay – „Energetic particles beyond the heliospheric shock: Anomalous cosmic rays, pick-up ions, and the associated energetic neutral atoms (ENA's) in „Acceleration and Transport of Energetic Particles in the Heliosphere”, *ACE-2000 Symposium*, ed. R.A.Mewaldt, CP528, 345-348 (2000)
8. H.Scherer, H.J.Fahr, M.Bzowski, D.Rucinski - „The influence of fluctuations of the solar emission profile on the doppler shift of interplanetary H-Ly- $\alpha$  line observed by the Hubble Space Telescope, *Astrophysics and Space Science*, Vol. 274, 133-141 (2000)
9. H.J.Fahr, D.Rucinski - „Modification of properties and dynamics of distant solar wind due to its interaction with neutral interstellar gas”, *Space Science Reviews*, Vol.97, 407-412 (2001)
10. H.J.Fahr, H.Scherer, G.Lay, M.Bzowski - „The Lyman-alpha echo from the heliospheric bow shock region and its observability from Earth”, in „The Outer Heliosphere: The Next Frontiers”, COSPAR Colloquia Series, Vol.11, ed. K.Scherer, H.Fichtner, H.J.Fahr, E.Marsch, Elsevier Science - Pergamon, 289-294 (2001)
11. A.Czechowski, S.Grzedzielski, H.Fichtner, M.Hilchenbach, K.C.Hsieh – „Anomalous cosmic rays outside the termination shock”, in „The Outer Heliosphere: The Next Frontiers”,

COSPAR Colloquia Series, Vol.11, ed. K.Scherer, H.Fichtner, H.J.Fahr, E.Marsch, Elsevier Science - Pergamon, 199-202 (2001)

12. A.Czechowski, H.Fichtner, S.Grzedzielski, M.Hilchenbach, K.C.Hsieh, J.R.Jokipii, T.Kausch, J.Kota, A.Shaw – „Anomalous cosmic rays and generation of energetic neutrals in the region beyond the termination shock, *Astronomy and Astrophysics*, Vol.368, 622-634 (2001)
13. A.Czechowski, H.J.Fahr, G.Lay, M.Hilchenbach - „Pick-up ions upstream and downstream of the termination shock”, *Astronomy and Astrophysics*, (2001, in press)
14. H.J.Fahr, D.Rucinski – „Heliospheric pick-up ions influencing thermodynamics and dynamics of the distant solar wind, *Nonlinear Processes in Geophysics* , (2001, submitted)