

## Liste der Veröffentlichungen von H. J. Fahr zwischen 1998 und 2004

### 1.) in referierten Wissenschaftsjournalen:

-2004-

- A.Yeghikyan and H.J.Fahr: "Effects induced by the passage of the Sun through dense molecular clouds: Flow outside of the compressed heliosphere", *Astron.&Astrophys.*, 415, 763-770, 2004
- H.J.Fahr and M.Bzowski: "A kinetic control on the heliospheric interface hydrodynamics of charge-exchanging fluids", *Astron.&Astrophys.*, 2004, in press
- H.J.Fahr and M.Bzowski: "Charge-exchange-induced perturbations of ion and atom distribution functions in the heliospheric interface", *IGPP-3 Proceedings, American Institute of Physics, Riverside CA, 2004*, in press
- A.Yeghikyan and H.J.Fahr: "Effects induced by the passage of the Sun through dense interstellar clouds", *Astron.& Astrophys.*, 415, 763-770, 2004
- S.V.Chalov, D.B.Alexashov, and H.J.Fahr: "Reabsorption of self-generated turbulent energy by pick-up protons in the outer heliosphere", *Astron.&Astrophys.*, 416, L31-L34, 2004

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- H.J.Fahr: "Towards a better understanding of a hydrodynamic plasma-gas coupling by charge exchange processes", *Astrophys.Space Sci.*, 284, 1035-1054 2003
- I.V.Chashei, H.J.Fahr and G.Lay: "A consistent thermodynamics of the MHD wave-heated two-fluid solar wind", *Ann.Geophys.*, 21, 1405-1418, 2003
- J.Overduin and H.J.Fahr: "Vacuum energy and the economical universe", *Foundations of Physics*, 16(2), 119-125, 2003
- V.B.Baranov and H.J.Fahr: "Non-ideal MHD properties of a partially ionized interstellar gas", *J.Geophys.Res.*, 108 (A3), 1110-1116, 2003
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- A.Yeghikyan and H.J.Fahr: "Consequences of the solar system passage through dense interstellar clouds", *Ann.Geophys.*, 21(6),1263-1275, 2003
- D.Rucinski, M.Bzowski and H.J.Fahr: "Imprints from the solar cycle on the helium atom and helium pick-up ion distribution", *Ann.Geophys.*, 21(6), 1315-1331, 2003
- S.V.Chalov, V.Izmodenov and H.J.Fahr: "Spatial behaviour of pick-up ion spectra in the inner heliosheath and fluxes of energetic neutral atoms", *Advances Space Research*, 27, in press, 2003
- S.V.Chalov, H.J.Fahr, and V.Izmodenov: "Evolution of pick-up proton spectra in the inner heliosheath and their diagnostics by energetic neutral atom fluxes", *J.Geophys.Res.*, 108 (A6), 1266,doi:10.1029, 2003
- H.J.Fahr: "The charge-exchange - induced coupling between plasma - gas counterflows in the heliosheath", *Ann.Geophys.*, 21, 1289-1295, 2003
- H.J.Fahr, K.Scherer, and A.Yeghikyan: "The early evolution and ionic variation of the primordial heliosphere", *Astronomical Notes*, 324(2), 6, 2003
- D.Nickeler and H.J.Fahr: "On stationary resistive MHD flows with application to the heliosphere", *Astronomical Notes*, 324(3), 73, 2003
- H.J.Fahr and K.Scherer: "Latitudinal solar wind flows enforced by pick-up ion pressure gradients", *Astronomical Notes*, 324(3), 85, 2003
- H.J.Fahr, H.Fichtner, and K.Scherer: "The dynamic heliosphere in the galactic circle", *Astronomical Notes*, 324(3), 83, 2003
- A.Yeghikyan and H.J.Fahr: "Effects induced by the passage of the sun through dense molecular clouds", *Astronomical Notes*, 324(3), 83,2003
- A.Yeghikyan and H.J.Fahr: "Terrestrial atmospheric effects induced by counterstreaming dense interstellar cloud material", *Astronomical Notes*, 324(3), 115, 2003
- H.J.Fahr: "The global structure of the heliosphere and the interaction with the interstellar medium: Three decades of growing knowledge", *Advances Space Research*, 32(4), im Druck, 2003
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- H.J.Fahr: "A revised theory of the charge-exchange coupling between plasma-gas counterflows in the heliosheath", in *SOLAR WIND TEN* (Pisa, 2002), Eds.: M.Velli et al., *AIP Conference Proceedings*, Volume 679, 129-134, 2003
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- H.J.Fahr: "Alternativen zur Urknall-Kosmologie: Die Welt als kosmischer Attraktor", in "Die Welt im Großen und Ganzen", Ed. E.Müller, Verlag Van den Bergh und Rupprecht, Stuttgart, 2003
- H.J.Fahr: "Was bringt uns die Weltformel? Greifbares Ziel oder ewige Illusion?", in "Gott und der Urknall: Schöpfungsglaube und moderne Kosmologie", Ed.E.Schockenhoff, Reihe Grenzfragen, Karl Alber Verlag, Freiburg 2003
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- S.V.Chalov and H.J.Fahr: "Acceleration of pick-up ions at the termination shock for the limit of weak scattering",COSPAR Colloquium Series "The outer heliosphere:The next frontiers",

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