

CURRICULUM VITAE

Nikolai E. Piskunov

Date and place of birth: October 24, 1957, Moscow, Russia

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EDUCATION

- February 1980 B.S. Physics and Astronomy, Moscow State University,
1980 – 1984 Postgraduate student, Astronomical Council, USSR Academy
of Sciences, Moscow.
- January 1985 Ph.D. in Theoretical Astrophysics, Tartu University, Estonia.
Thesis: “Study of magnetic field on Ap stars”.
- October 1992 Docent competence certification, Helsinki University, Finland

MAIN INTERESTS IN ASTRONOMY

Experimental: high-resolution spectroscopy of stars, polarization measurements, instrument design for spectroscopic and polarization observations, data reduction algorithms.

Theoretical: modelling of stellar atmospheres, accurate determination of stellar fundamental parameters in connection with the evolution models, imaging of stellar surfaces (Doppler imaging), modelling of stellar magnetic fields, 3D models of chemically peculiar stars and active late-type stars, theory and algorithms of radiative energy transport in 3D in the presence of magnetic and velocity fields, early stages of evolution of solar-type stars.

EMPLOYMENT

- 1981 – 1991 Researcher, Senior Researcher, USSR Academy of Sciences, Moscow
1991 – 1993 Research assistant, Helsinki University
1993 – 1994 Visiting professor, University of Western Ontario, Canada
1994 – 1996 Research professor, JILA, Boulder Colorado, USA
1996 – ... Professor in observational astrophysics, Uppsala University

OTHER ACTIVITIES

Dean of Physics section of Uppsala University since 2002.

Chairman of the NOT Scientific and Technical Committee (STC) in 2000–2003.

Swedish representative in the STC of the European Southern Observatory (ESO) since 1999.

Chairman of the LOC and co-chairman of the SOC for the International Astronomical Union Symposium 210 on *Modelling of Stellar Atmospheres* in Uppsala in June 2002¹.

Referee for the *Astrophysical Journal* and *Astronomy & Astrophysics*.

Referee for the Time Allocation Committee for several major observatories including Hubble Space Telescope, Canadian-French Hawaii Telescope and Anglo-Australian Observatory.

¹IAU 210 was the first IAU Symposium in Sweden since 1976

Design and construction of the astronomical instrumentation: 4-Stokes parameter spectropolarimeters for the DAO and the NOT telescopes, the Very Long Camera and fiber link for the CES on the 3.6m ESO telescope.

The publication list contains over 150 papers. Citation index for the papers published since 1997 includes over 750 entries.

DEGREE SUPERVISION

Oleg Malkov “Temperature structure of the atmospheres of Ap stars”, Master Thesis in Astronomy, Moscow State University, 1991.

Thomas Hackman “Surface imaging of active regions on late-type stars”, Master Thesis in Astronomy, Helsinki University, 1994.

Friedrich Kupka “Calculations of model atmospheres for Ap stars”, Master Thesis in Astronomy, Institute of Astronomy, Vienna University, 1996.

Rainer Kuschnig “The distribution of metals on the surface of Helium strong and Helium weak stars”, Ph.D. in Astronomy, Institute of Astronomy, Vienna University.

Oleg Smirnov “Automation of Astronomical data reduction. Application to crowded field CCD photometry”, Ph.D. in Astronomy, Moscow State University, 1998.

Friedrich Kupka “Non-local convection models for stellar atmospheres”, Ph.D. in Astronomy, Institute of Astronomy, Vienna University, 1998.

Theresa Lüftinger “Multi-element Doppler Imaging of A-F chemically peculiar stars” Master Thesis in Astronomy, Institute of Astronomy, Vienna University, 2000.

Oleg Kochukhov “Modelling of Stellar magnetic fields”, Ph.D. in astronomy, Uppsala, defense will take place on May 22nd, 2003.

Eric Stempels “Observational studies of young stellar objects”, Ph.D. in astronomy, Uppsala, defense will take place on May 26th, 2003.

Samuel Regandell, “Observational signatures of extrasolar planets”, Ph.D. in astronomy, Uppsala, started 1998

LANGUAGES: Fluent in Russian, English, French and Swedish.