

Curriculum Vitae

Todor S. Stanev: born Stejerovo, Bulgaria, February 21, 1945. U.S. citizen since 1991

Education: M.S., Physics, Sofia University, 1968; Ph.D., Institute for Nuclear Research and Nuclear Energy, 1977.

Employment: Research Assistant, INRNE-Sofia, 1968-69; Research Associate, P.N. Lebedev Institute for Physics, Moscow, 1969-70; Research Associate, INRNE-Sofia, 1971-73; Assistant Professor, INRNE-Sofia, 1973-77; Associate Professor, INRNE-Sofia, 1977-1981; Senior Research Fellow, Bartol Research Institute, University of Delaware, 1981-88; Associate Professor, Bartol Research Institute, 1988 - 1994; Professor, Bartol Research Institute, 1994 –

Fellow, American Physical Society.

Publications: 358, including: 147 in refereed journals; 211 in Conference papers and book chapters

Book: High energy cosmic rays, Springer Verlag, 2004.

Conference organization: member of the Organizing Committee or session organizer at four international science meetings the last three years. Co-director of the Erice school of cosmic ray astrophysics since 1998

Recent Invited Talks at:

Venice workshop on neutrino telescopes, Venice, Italy, 2005; Aspen workshop on the end of the cosmic ray spectrum, Aspen, US, 2005; TAUP05, Zaragoza, Spain, 2005; Ultra high energy neutrinos: the key to ultra high energy cosmic rays, Vulcano workshop 2006; The end of the galactic cosmic rays spectrum, CRIS 2006; The transition from galactic to extragalactic cosmic rays, NOW 2006; Ultrahigh Energy Cosmic Rays and neutrinos, RICAP07; Ultrahigh Energy Cosmic Rays: Origin and Propagation, invited talk at the 2007 International Cosmic Ray Conference.

Five publications related to the proposed research:

1. The arrival directions of the most energetic cosmic rays, T. Stanev, P.L. Biermann, J. Lloyd-Evans, J.P. Rachen and A.A. Watson, *Phys. Rev. Lett.* **75**, (1995) 3056.
2. The Highest Energy Cosmic Ray, F. Halzen, T. Stanev, H. Vankov and R. Vazquez, *Astropart. Phys.* **3**, 151 (1995).
3. Limits of Topological Defects Models of the Ultrahigh Energy Cosmic Rays, R.J. Protheroe and T. Stanev, *Phys. Rev. Letters*, **77**, 3708 (1996).
4. Propagation of ultra-high energy protons in the nearby universe, T. Stanev, R. Engel, A. Muecke, R.J. Protheroe & J.P. Rachen, *Phys. Rev. D*:**62**:063005 (2000)
5. Cosmogenic Neutrinos from Cosmic Ray Interactions with Extragalactic Infrared Photons, D. DeMarco, T. Stanev, M. Malkan & F.W. Stecker, *Phys. Rev. D*, *astro-ph/0512479*

Five additional publications

1. SIBYLL: An event generator for simulations of high energy cosmic ray cascades, R.S. Fletcher, T.K. Gaisser, P. Lipari and T. Stanev, *Phys. Rev. D* **50**, 5710 (1994).
2. Constraints on the extragalactic infrared background from gamma ray observations of Mkn 501, Todor Stanev and Alberto Franceschini, *ApJ Lett.*, 494, L159 (1998)
3. The nature of the highest energy cosmic rays, T. Stanev and H.P. Vankov, *Phys. Rev. D*, **55**, 1365 (1997).
4. Ultra High Energy Cosmic Rays and the Large Scale Structure of the Galactic Magnetic Field, T. Stanev, *ApJ*, **479**, 290 (1997).
5. Cosmic Ray Fluxes, T.K. Gaisser and T. Stanev, in *Review of Particle Properties*, *Phys. Rev. D*, **66**, 122 (2002).