

Vereshchagin Gregory

Position: researcher

Period covered: 2009



Scientific Work

Continued the work on electron-positron plasma kinetics with Alexei Aksenov.

Continued the work on plasma hydrodynamics with Gustavo de Barros.

Finished a review paper coauthored with R. Ruffini and S.-S. Xue, accepted by Physics Report.

Conferences and educational activities

Zeldovich meeting in Minsk, 20-23 April 2009.

6th Italian-Sino Workshop, June 29-July 1, 2009 in Pescara, Italy

12th Marcel Grossmann Meeting, 12-18 July, 2009 in Paris, France

The Shocking Universe, 14-18 September 2009 in Venice, Italy

Work With Students

Gustavo de Barros

Ivan Siutsou

Other Teaching Duties

Worked on the lecture course “Relativistic kinetic theory”

Service activities

Visit to RMKI in Budapest, Hungary, February 2009.

Organized the international conference in honor of Ya. B. Zeldovich 95th Anniversary in Minsk, 20-23 April 2009.

2009 List of Publications

R. Ruffini, G.V. Vereshchagin and S.-S. Xue, “Electron-positron pairs in physics and astrophysics: from heavy nuclei to black holes” Physics Reports, accepted, 2009.

A.G. Aksenov, R. Ruffini and G.V. Vereshchagin, “Thermalization of the mildly relativistic plasma <<http://dx.doi.org/10.1103/PhysRevD.79.043008>>”, Physical Review D, Vol. 79 (2009) 043008.

A. G. Aksenov, R. Ruffini, and G. V. Vereshchagin, “Thermalization of pair plasma with proton loading <<http://dx.doi.org/10.1063/1.3141571>>” in the Proceedings of “PROBING STELLAR POPULATIONS OUT TO THE DISTANT UNIVERSE” meeting, AIP Conference Proceedings 1111 (2009) 344-350.