2-yr postdoctoral position in heliophysics at IRAP

The Planetary, Environment and Space Plasma group at IRAP/University of Toulouse offers a two-year postdoctoral position in heliophysics with the aim to test the hypothesis that high-energy Solar Energetic Particles (SEPs) and solar gamma rays are the result of particle acceleration at coronal shock waves. The project will exploit readily available numerical models of diffusive-shock acceleration and develop a new 3-D particle-transport code to simulate particle transport in the interplanetary medium. This new modelling framework will take full advantage of the pool of remote-sensing and in-situ measurements brought by the current heliophysics observatory including 3-D reconstruction techniques of coronal shocks. The project also aims at exploiting the first data from the Parker Solar Probe mission.

The successful candidate will work for the COROSHOCK project funded by the French National Research Agency (PI: Alexis Rouillard). The project includes collaborations with University of Turku, Meudon Observatory, Johns Hopkins Applied Physics Laboratory and the Naval Research Laboratory. The grant includes travel funds to attend international meetings and collaborative visits.

The candidate should hold a PhD in heliophysics or equivalent. She/he should have a strong interest and skills in numerical studies. The application must include a CV, a list of publications, copies of degree diplomas, two reference letters, and a motivation letter.

Deadline for applying is November 19. The application should be sent to arouillard@irap.omp.eu

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