

Postdoctoral fellowship @ University of Padova, Padova, Italy.

First-principles study of charge dynamics in perovskite solar cells

Applications are invited for one postdoctoral position available at the Department of Physics and Astronomy of the University of Padova, Italy.

The main focus of the research will be the study and simulation of charge transport in organo halide perovskites. In particular, density functional theory and first-principle many-body perturbation theory approaches will be used.

The ideal candidate has a solid knowledge of electronic-structure theory and expertise in first-principles calculations based on density functional theory. Experience in coding and specific experience in many-body perturbation theory approaches will be an advantage. Candidates must hold a PhD in Physics, Chemistry, Materials Science, or related discipline.

The appointment is initially for one year, and can be extended for a second year upon mutual agreement. The candidate will work under the supervision of Prof. Paolo Umari.

Consideration of candidates will begin immediately and continue until the position is filled. Interested candidates are invited to send their CV, a short summary of her/his scientific achievements (max 2 pages), a full list of publications and the name (with e-mail address) of two referees to Paolo Umari(paolo.umari@unipd.it)