



CALL FOR APPLICATIONS - May 2022

Distinguished Researcher Position

Donostia International Physics Center (DIPC) is currently accepting applications for Distinguished Researcher positions. A description of each of the available openings, contact information and deadlines can be found on the following pages.

Although candidates are welcome to contact the project supervisors to know further details about the proposed research activity, please be aware that the application will be evaluated only if it is submitted directly to the email address listed as “application email”.

Applications received by the deadline will be evaluated by a Committee designed by the DIPC board on the basis of the following criteria:

- CV of the candidate (45%)
- Adequacy of the candidate's scientific background to the project (45%)
- Other: Diversity in gender, race, nationality, etc. (10%)

Evaluation results will be communicated to the candidates soon after. Positions will only be filled if qualified candidates are found.

The DIPC may revoke its decision if the candidate fails to join by the appointed time, in which case the position will be awarded to the candidate with the next highest score, provided it is above 50 (out of 100).

However, the selected candidate may keep the position if, in the opinion of the Selection Committee, the candidate duly justifies the reasons why he or she cannot join before the specified deadline, and as long as the project allows it.

Ref. 2022/34
Time-resolved photoemission from solids

Supervisor(s):

Eugene Krasovskii (eugene.krasovskii@ehu.eus)

Duration*: 1 year

Application Deadline: 23/05/2022

Application Email: jobs.research@dipc.org

We seek a distinguished researcher with experience in theoretical condensed matter physics to work in the area of attosecond chronoscopy of solids. The successful candidate is expected to have experience with Keldysh's formalism for out-of-equilibrium many-body systems, as well as decoupling schemes for temperature dependent two-time Green's functions and modern non-perturbative approaches of the solid state theory, including ab initio computational methods.

The candidate will be involved in one or more of the following projects:

1. Modelling of the real-time evolution of the photoexcited electron wave packet in the presence of complex scatters. Theory of the attosecond streaking and Hartman effect in real solids.
2. Modelling of RABBITT (reconstruction of attosecond beating by interference of two-photon transitions) in solids.
3. Development of a theory of time-resolved attosecond photoemission from interacting electron systems.

Interested candidates should submit an updated CV and a brief statement of interest to the application email listed above. The reference of the specific opening to which the candidate is applying should also be stated in the subject line.