

At the Max Planck Institute for the Science of Light, a new independent theory research group dedicated to non-Hermitian topological phenomena will be established, led by Flore Kunst.

Non-Hermitian Hamiltonians are used to describe systems with gain and loss, or other forms of dissipation, and find applications both in classical and in quantum setups. Studying these Hamiltonians in the context of topology is a new emerging field, where many unexpected novel phenomena are observed.

We are looking for

- 1 postdoctoral researcher (2 years)
- 2 PhD students (3 years + 1 year possible extension)

For the PhD student candidates, a background in condensed matter physics is preferred, but all applications will be taken into consideration. Above all, you should be highly motivated and excited to enter a new field.

For the postdoctoral position, demonstrated experience in at least one of the following topics is expected: condensed matter physics, open quantum systems, topological phases of matter, and quantum many-body physics. The position can be extended upon mutual agreement.

The following materials are requested:

For PhD candidates - (i) CV including grades/transcript (ii) motivation letter (iii) a reference letter (e.g. from the master thesis advisor) is appreciated, but not strictly mandatory.

For postdoctoral candidates - (i) CV (including publication list) (ii) motivation letter (iii) two reference letters.

Application materials should be sent to [Gesine Murphy](#). Reference letters should be sent by the letter writers directly to [Gesine Murphy](#).

We will start interviewing candidates immediately until the positions are filled.

The Max Planck Institute for the Science of Light is a world-leading research institute dedicated to fundamental research on all areas related to the science of light.

We offer competitive salaries (TVöD E13; 100% for Postdocs, 75% for PhD candidates) and an international research environment at MPL.

If you are a young, highly motivated, creative and excellent theoretical physicist, apply now to join our team!

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply. The Max Planck Society strives for gender and diversity equality, welcoming applications from all backgrounds.