

## Research Project Leader on the Fundamentals of Light-Matter Interactions

The [Centre for Disruptive Photonics Technologies](#) at Nanyang Technological University (NTU) in Singapore – one of the world leading research universities - is establishing a new research programme funded by the Ministry of Education Singapore. **The programme aims to a direct observation of a toroidal transitions in atoms** that will be a major breakthrough in the physics of light-matter interactions. Such observation will impact our understanding of atomic spectra, anapole electrodynamics, energy and information exchange at the molecular level and the origin of the cosmic dark matter. It will allow the development of new schemes for precision measurements, spectroscopies and imaging techniques such as NMR.

We are seeking a highly motivated candidate with keen interest in fundamental physics and precision measurements to be the leading research associate on the programme. The candidates should have a PhD in experimental atomic physics, laser spectroscopy or related subject.

The project will be carried on in the group of [David Wilkowski](#) and [Nikolay Zheludev](#) at the main campus of Nanyang Technological University in Singapore

The position is available for early 2021 for 2 years with possible extension. The position will remain open until it is fulfilled. The salary will be between S\$ 50.000-80.000 per annum depending on experience.

For any inquiries contact David Wilkowski ([david.wilkowski@ntu.edu.sg](mailto:david.wilkowski@ntu.edu.sg)). Please provide a complete CV summarizing your research activities, a motivation letter, an exhaustive list of publication, and the contract details of at least two referees.