

# Nuclei: From fundamental interactions to structure and stars



The new Collaborative Research Centre (SFB 1245)  
at TU Darmstadt is announcing

## 15 Doctoral Positions in Experimental and Theoretical Nuclear Structure and Nuclear Astrophysics

### Goal of SFB 1245

Systematic understanding of nuclei across the nuclear chart:

effective field theories of the strong interaction will be tested with key experiments at the Darmstadt accelerator S-DALINAC and other internationally leading facilities.

### Research topics

- effective field theories and many-body methods across the nuclear chart
- supernova explosions, nucleosynthesis and neutron stars
- precision experiments with electromagnetic probes
- laser spectroscopy of short-lived isotopes
- Coulomb breakup and knockout reactions at the limits

### Open positions

We are continuously looking for excellent young researchers who want to work in this attractive environment. The doctoral research is embedded in an **integrated graduate program** with a range of opportunities.

Applicants are invited to submit: curriculum vitae, copies of transcripts and certificates, two recommendation letters, and a letter of motivation electronically to [sfb1245@ikp.tu-darmstadt.de](mailto:sfb1245@ikp.tu-darmstadt.de).

