

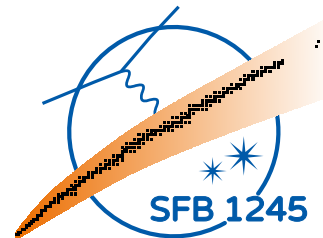


# MGK Opportunities

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Deutsche  
Forschungsgemeinschaft

**DFG**



1<sup>st</sup> Workshop of the SFB 1245, Nov. 21-23, 2016, Lichtenberghaus, Darmstadt

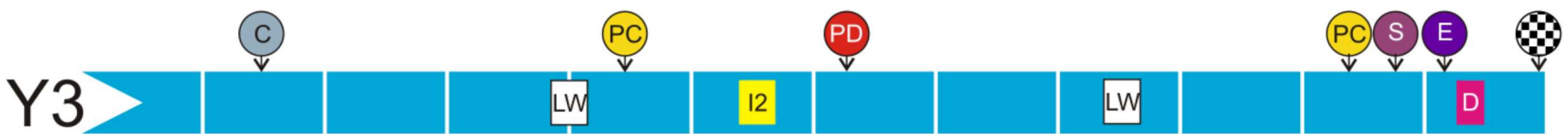
Provides enhanced, innovative and international environment for doctoral researchers and structured qualification plan





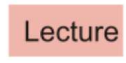







- Topical lecture weeks
- Annual CRC Physics Days
- Recruitment stipends
- Annual travel prize
- Research internships in theory

**Ingenium:** yearly specialized course for CRC + soft skills courses

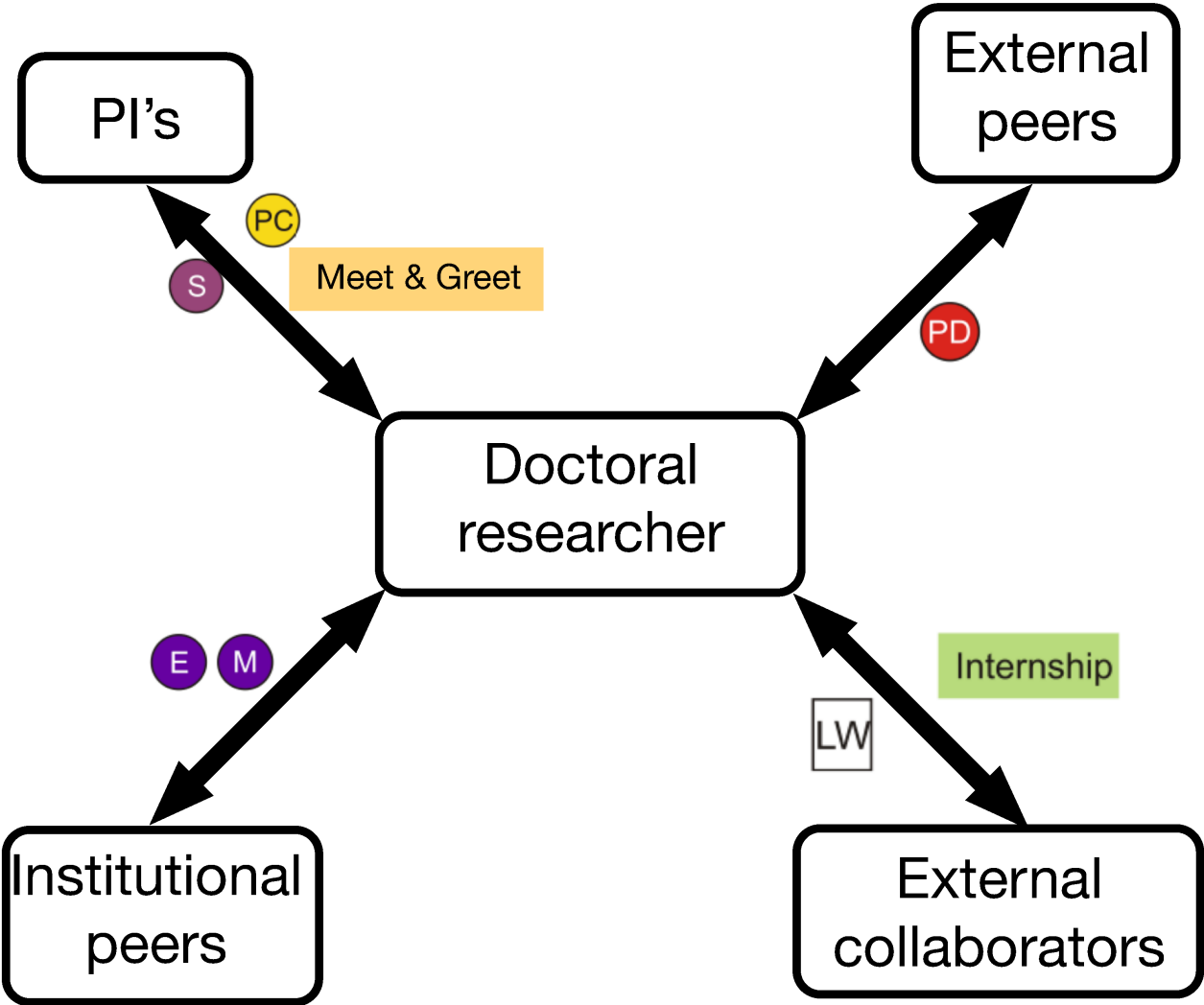
**HGS-HIRe:** broader physics courses on hadron physics, atomic physics, biophysics, ...

# Structured Qualification Plan



- |   |                       |   |   |   |                          |
|---|-----------------------|---|---|---|--------------------------|
|  | PhD committee         |  | Professional training:<br>soft skills / selected topics |  | SFB workshop             |
|  | Mid-/End term seminar |  | Lecture Special lecture                                 |  | Summer school            |
|  | Physics Days          |  | Research internship                                     |  | DPG spring meeting       |
|  | Dissertation          |  | Lecture week  |  | International conference |

# Supervision and Support



## • Qualification Goals

- Excellent scientific competences on a particular aspect of nuclear physics or nuclear astrophysics, science and technology
- Overview and broad scientific understanding of key technologies and competences involved in nuclear physics and related fields
- Overview and broad understanding of the scientific activities of the international physics community
- Fundamental skills for scientific leadership in research and science

## • Further Goals

- Mentor and promote junior scientists within the CRC
- Stimulate networking and exchange among the junior scientists

## ● Meet & Greet

- every two months (We 16:00)
- PIs present project to doctoral researchers, open format
- past: A01/A02, A02, next: B02

## ● Physics Days

- once per year, **organised by doctoral researchers**
- next: DA and HD with Klaus Blaum's group (12/2016)

## ● Topical Lecture Weeks

- twice per year, **organised by doctoral researchers**
- past: Stefan Scherer:  $\chi$ PT (06/2016)
- next: Alexandre Obertelli: nuclear structure experiment (spring 2017)

- **MGK Seminar**
  - once per week (Th 12:30)
  - **CRC doctoral researchers give mid-term & end-term seminars**
  - talk 30-40 min. + 20 min. discussion among doct. researchers
- **CRC-Related Lectures**
  - **Nuclear Astrophysics** more focused on CRC topics: stellar evolution, explosions, and remnants (WS 2016/17: G. Martinez-Pinedo)
  - **Many-Body Theory** (SS 2017: K. Hebeler/A. Schwenk)
  - **QFT II: Effective Field Theories** (WS 2017/18; H.-W. Hammer)
  - **Laser Spectroscopy of Exotic Systems** (W. Nörtershäuser/ J. Enders)

- **Internships for Doctoral Researchers in Theory**
  - application twice per year (4 internships of 2000 € /year)
  - **submit:** cv, motivation letter (2 pages, should fit CRC topics), supporting letters from supervisor and host
  - **deadlines:** 15.12.201x and 15.06.201x
  - 2016 recipient: Jonas Braun (A02)
- **Travel Prize**
  - once per year for best theoretical & experimental paper: 1000 € for travel to CRC-related conference
  - **submit:** paper and short explanation of contribution of doctoral researcher (1 page)
  - **deadline:** 01.06.201x for papers published or accepted in previous 12 months
  - 2016: no applications...



MGK provides enhanced, innovative and international environment for doctoral researchers and structured qualification plan with many opportunities

⇒ use them....