

MGK - Opportunities



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The Third Year



A. Arcones, H.-W. Hammer, W. Nörtershäuser
S. Greif, P. Ries

3rd Workshop of the SFB 1245, July 04-06, 2018, Schloss Waldthausen, Mainz

IRTG Integrated Research Training Group



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

Ingenium: yearly specialized course for CRC + soft skills courses

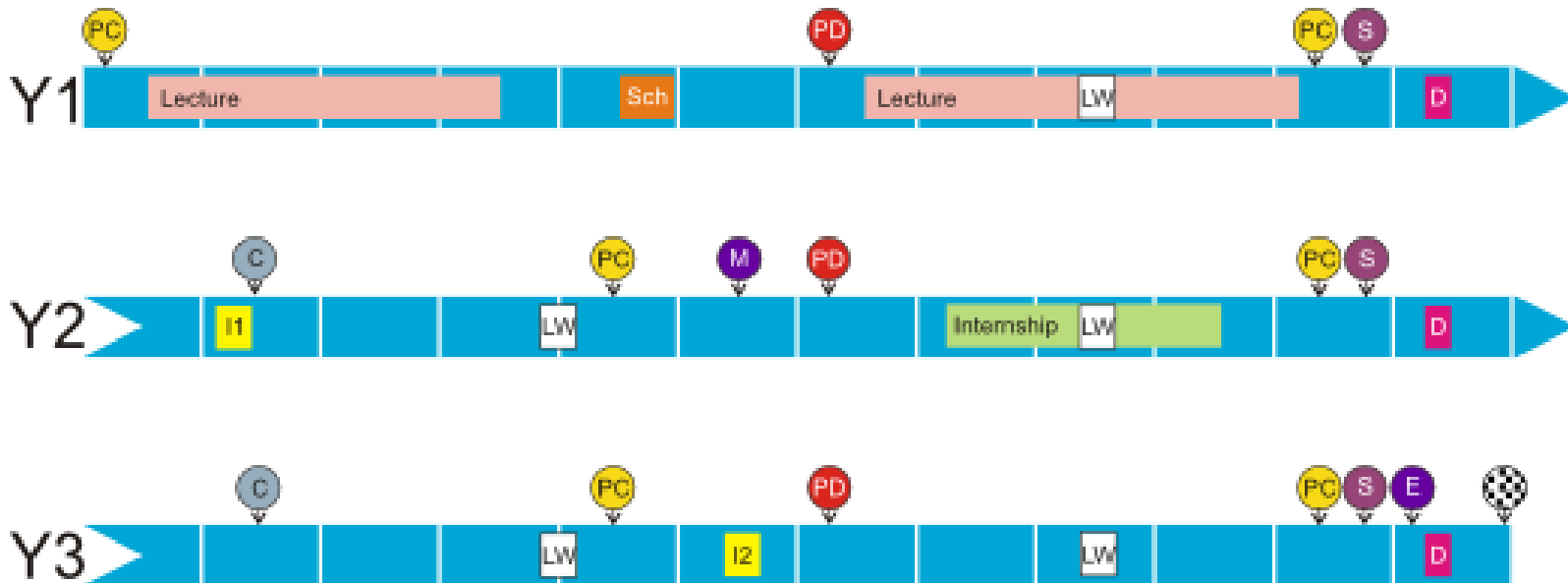
HGS-HIRe: broader physics courses on hadron physics, atomic physics, biophysics, ...

SFB internal programmes: additional benefits

Structured Qualification Plan

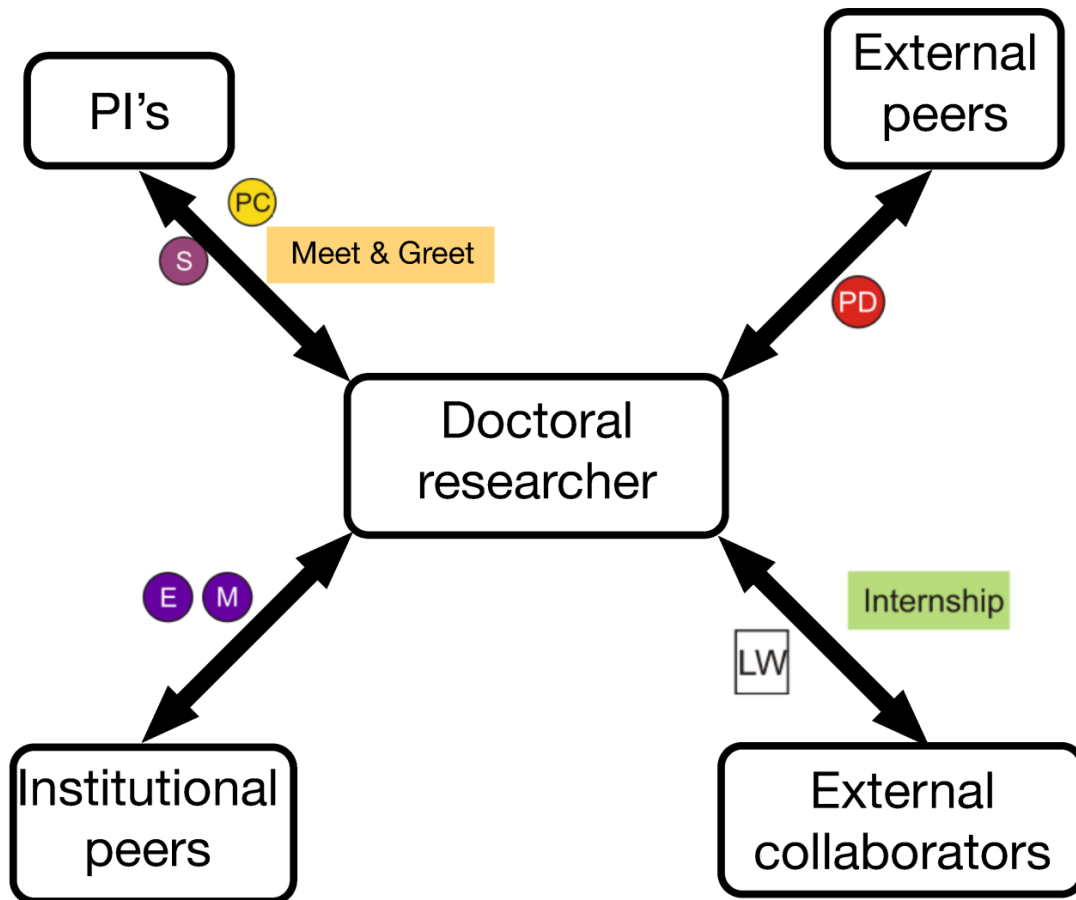


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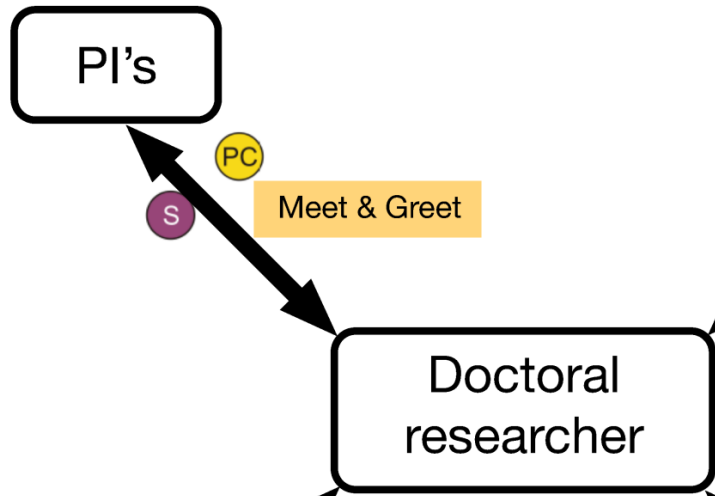


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|--|-----------------------|--|---|--|--------------------------|
| | PhD committee | | Professional training:
soft skills / selected topics | | SFB workshop |
| | Mid-/End term seminar | | Special lecture | | Summer school |
| | Physics Days | | Research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

Supervision and Support



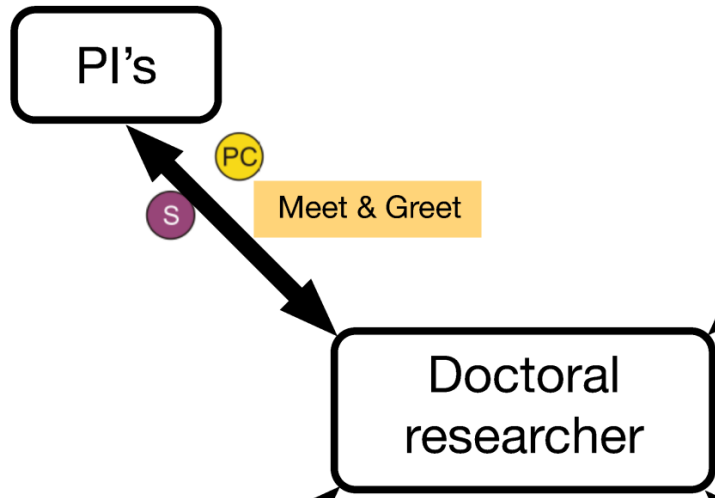
SFB Workshops



Now !

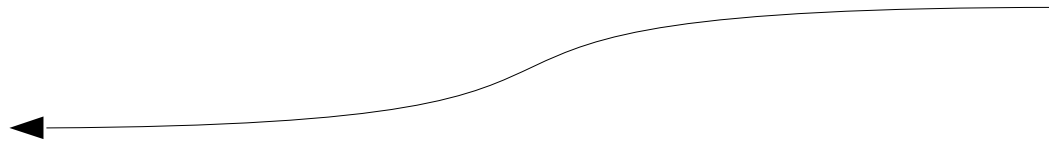
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SFB Workshops

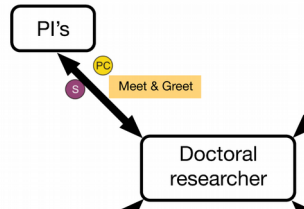


Now !

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Meet & Greet



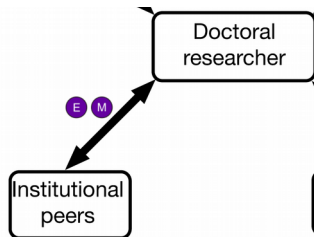
“Meet & Greet” is a bimonthly event that will foster the exchange between the young scientists and the PIs of the CRC in an informal atmosphere. Each evening (4:00 pm in S2|14, 401) will be devoted to one of the subprojects, which will be introduced by a PI.

Next:

- October 17, 2018: Almudena Arcones, B06
- Dezember 05, 2018: Hans-Werner Hammer, A05

Past:

- June 21, 2018: Volker Werner, B03
- May 2, 2018 at 4:30: Tom Aumann & Dominic Rossi, A05/A06
- February 14, 2018: Jens Braun & Kai Hebel, B05
- November 30, 2017: Joachim Enders, Peter von Neumann-Cosel, B02
- October 18, 2017: Achim Schwenk, A04
- June 28, 2017: Norbert Pietralla, A01 / A07
- April 19, 2017: Gabriel Martinez-Pinedo, B01
- January 18, 2017: P. von Neumann-Cosel & H. Scheit, Introduction to B04
- May 25, 2016: R. Roth & H.-W. Hammer, Ab-initio nuclear structure in A02
- February 24, 2016: W. Nörtershäuser, Laser Spectroscopy in A01 and A03



Schedule for SS 2018:

Day	Speaker	Title	Project
03.05.	Lukas Huth	Chiral effective field theory for local nuclear forces and for valence-space interactions	A04
24.05.	Carlos Mattes	Challenges in long-time Core-Collapse Supernova Simulations	B06
07.06.	Andre Sieverding	Neutrinos in Supernova Nucleosynthesis	B06
21.06.	Hannah Yasin	Core-Collapse Supernovae and Equation of State	B06
28.06.	Felix Sommer	Nuclear charge radii and moments through collinear laser spectroscopy at Argonne National Laboratory	A03

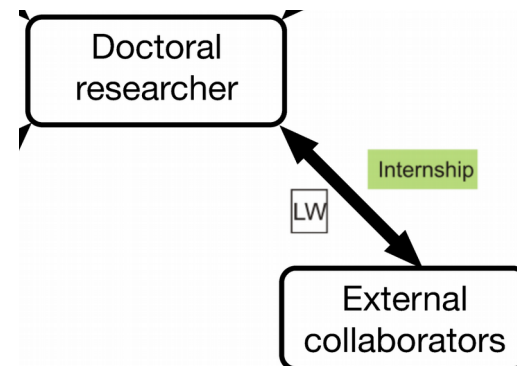


Martin Pospiech

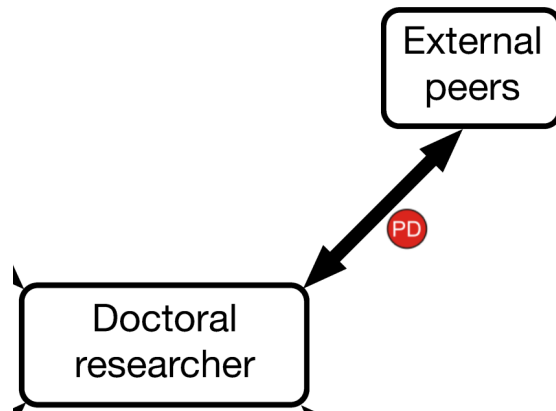
Every doctoral researcher has to give at least **two** talks during her/his PhD.
Next terms program under discussion ?

twice per year, **organised by doctoral researchers**

- Nathal Severijns (KU Leuven), ?, Low-energy weak interactions
- Raphael Hirschi (Keele University), March 12-16, 2018,
From stars to elements: stellar evolution and nucleosynthesis
- Sonia Bacca (Uni Mainz), Nov. 21-24, 2017,
Electromagnetic properties of nuclei: from few- to many-body systems
- Alexandre Obertelli (CEA Saclay), Feb. 22-24, 2017,
Nuclear structure from spectroscopy and direct reactions
- Stefan Scherer (Uni Mainz), June 1-3, 2016,
Chiral perturbation theory



Physics Days



- Nov. 24-25, 2017 in Garching, München: “Neutrinos and Dark Matter in Astro- and Particle Physics”
- Dec 16/19, 2016 in Darmstadt/Heidelberg: “High-Precision Mass Spectroscopy”



Next?
Bonn-Cologne Graduate School for Physics and Astronomy
Johannes Gutenberg Universität Mainz
Technische Universität Dresden

Prizes: Theory Internships



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- Internships for Doctoral Researchers in Theory
- application twice per year (4 internships of 2000 e /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

Accomplished internships:

- Marcel Schmidt: Mar. 6 - June 28, 2018 at University of Tennessee, Knoxville with Lucas Platter
- Jonas Braun: Aug. 29 - Nov. 25, 2017 at University of Tennessee, Knoxville with Lucas Platter
- Klaus Vobig: July 17 - Sep. 4, 2017 at TRIUMF, Vancouver with Petr Navrátil and Jason Holt
- Carlos Mattes: May 15 - May 26, 2017 at JINA, Michigan State University with Sean Couch
- Svenja Greif: May 1 - May 31, 2017 at University of Amsterdam with Anna Watts
- Julia Bliss: Apr. 19 - May 17, 2017 at JINA, Michigan State University with Fernando Montes
- Christian Drischler: Jan. 9 - Jan. 27, 2017 at Ohio State University, Columbus with Richard J. Furnstahl

Prizes: Travel Prize



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- 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: 31.01.201x for papers published or accepted in previous 12 months

Awardee 2016: Sergej Bassauer

Awardee 2017: Julian Kahlbow and Marc Leonhardt

Deadline: 31. January 2019

Conclusion

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

⇒ use them.... !!