- jDPG local group since 2007
- EPS Young Minds Section since April 2013
- 8 active members
- 5-6 events per semester

P. Möhrke  
Martin  
Alexander  
Ulrike  
Oliver

Karl-Philipp  
Arne  
Patricia  
Florian
Overview

- Introduction to the research of our department and close interdisciplinary groups
- Information about career perspectives of physicists
- Excursions to industry and research institutions
- Events for first semester students
- Network activities
- ...
Beyond middle earth

- Series of invited talks with 2-3 events per semester
- Especially organized for undergraduate students
- Goal: overview of the research of our department
- Additional lab visits for interested students
Career perspectives of a physicist

- An invited speaker talks about his career and his actual work
- For further discussions and questions: A come-together after the talk
- First event: Career in a big company vs. own start-up
- Second event: Medical physics and medical technology
- Third event: Theoretical physics: Simulation of surface dynamics
- Further ideas:
  - Consulting
  - Automotive industry
Two day excursion
11 students went to Zurich

Visits:

- ETH Zurich: Chair of system design (Prof. Schweitzer)
- Lab visits in the group of Prof. Keller
- EMPA

Networking with the Young minds section Zurich
20 students visited EADS in Friedrichshafen
Tour through the information center and the industry site
They had a look at the production of a satellite (cleanroom)
Information about careers at EADS
36 students visited the nuclear power plant in Leibstadt
Tour through the information center
Walk over the areal of the power plant (cooling tower, cooling pond,...)
Tour through the controlled zone inside the reactor
Network meeting in Karlsruhe

- Two day excursion
- Networking with the other Baden-Württemberg jDPG groups
- Visits:
  - Fraunhofer IOSB
  - Bruker AG
  - KIT (Karlsruhe institute of technology)
    - KATRIN
    - ANKA
    - Tritiumlab
    - Radiation research institute
The Boatle-Experiment

Idea:

- Build a boat with given material, which can transport as much taws as possible
- Help the first semester students to get in contact with the professors
- Increase the visibility of the young minds section among the students
- Teams with up to 6 students
- „Competition” with two „expert” teams
  - PhD students who teach an exercise group
  - Professors
Future plans

- Excursion to Zurich and visit the IBM research center
- Network meeting in Freiburg
- Cooperation with the JCF Konstanz (chemists)
  - Excursions: BASF, Paul-Scherrer-Institut
  - Christmas quiz
  - Volleyball tournament
- Further „beyond middle earth” and „career of a physicist” talks
Year of Light (ideas)

- Action week with different talks
  - Starting talk in cooperation with the university theater (shadow play)
  - Some popular scientific talks about topics with social relevance (LED, communication, ...)
  - Some talks with research topics
  - And some talks combined with an event (planetarium, 3D cinema, ...)

- Eyecatcher
  - Light sculpture (art)
  - Bicycles with LED (in cooperation with the university bicycle rent)
  - Lightbridge (a laser crossing the river)

- Outreach
  - Build a spectrometer with high-school students
Spectrometer

- Very simple and low-cost spectrometer
- But: Good resolution
- You need:
  - Gratings with 1000 lines/mm (∼ 15€ / 28 pieces)
  - Slideframes (∼ 2€ / 100 pieces)
  - Razor blades for the slit (∼ 2€ / 10 pieces)
  - Thicker paper (∼ 1€ / 5 pieces)
  - in total: ∼ 1 - 2€ per spectrometer
Thank you for your attention!