

**PhD School "Plasma-Astroparticle physics", Physikzentrum Bad Honnef,
06.-11.03.2016: Preliminary schedule**

| | Sunday | Monday | Dienstag | Mittwoch | Donnerstag | Freitag |
|-------------|------------------------|------------------------|-------------------------------|--|--|---|
| 8-9 | Arrival | 8:30 Tjus (Intro) | | | (8:30-9:15) Rhode 1 | (8:30-9:15) Rhode 2 |
| 9-9:45 | | Falcke 1 | Grenier 1 | Zweibel 3 | (9:15-10:00) Enßlin 1 | (9:15-10:00) Gaisser 3 |
| 9:45-10:30 | | Falcke 2 | Grenier 2 | Ellison 1 | (10:00-10:45) Enßlin 2 | (10:00-10:45) Matthews 3 |
| 10:30-11:00 | | Coffee break | Coffee break | Coffee break | (10:45 - 11:15) Coffee break | (10:45 - 11:15) Coffee break |
| 11:00-11:45 | | Zweibel 1 | Gebauer 1 | Matthews 1 | (11:15 - 12:00) Gaisser 1 | (11:15 - 12:00) Ellison 2 |
| 11:45-12:30 | | Zweibel 2 | Gebauer 2 | Matthews 2 | (12:00 - 12:45) Gaisser 2 | (12:00 - 12:45) Ellison 3 |
| 12:30-13:30 | | LUNCH | LUNCH | LUNCH (12:45 - 14:00) | (12:45 - 14:00) LUNCH | LUNCH |
| 13:30-15:00 | Arrival | Time for discussion | Time for discussion/exercises | Time for discussion/exercises | Time for discussion/exercises (14:00 - 14:45) | 14:00 - 16:00 workshop on information field theory (Torsten Enßlin) |
| 15:00-15:45 | | Mannheim 1 | Mannheim 3 | Free afternoon/Time for discussion/exercises | (14:45-15:30) Botner 1 | |
| 15:45-16:30 | | Mannheim 2 | Coffee | - | (15:30-16:15) Botner 2 | Departure |
| 16:30-17:00 | Arrival | Coffee | Workshops | - | (16:15-17:00) Coffee (conf-Photo!) | - |
| 17:00-17:45 | | Workshops | Workshops | - | Workshops | - |
| 17:45-18:30 | | Workshops | Time for discussion/exercises | - | Workshops | - |
| 18:30- | Dinner (Physikzentrum) | Dinner (Physikzentrum) | Dinner (Physikzentrum) | Dinner (Physikzentrum) | Wine tasting and School Dinner @ Weingut Broel | - |

Lecturers:

Olga Botner: Neutrino Astronomy (2 x 45min)

Tom Gaisser: Cosmic ray interactions (3 x 45min)

Don Ellison: CR acceleration (3 x 45min)

Torsten Enßlin: Information-field theory (2x45min)

Heino Falcke: Astrophysical jets (2 x 45min)

Iris Gebauer: Cosmic Ray Measurements (2 x 45min)

Isabelle Grenier: Gamma-Ray Astronomy (2 x 45min)

Karl Mannheim: Cosmic ray sources – leptonic vs hadronic (3 x 45min)

Lorin Matthews: Growth and Charging of dust (3 x 45min)

Wolfgang Rhode: Artificial intelligence in data analysis (2x45min)

Ellen Zweibel: Cosmic ray transport in the ISM (3 x 45min)

Workshops:

A) Particles in astroparticle physics: **Paolo Desiati**

B) Non-thermal astronomy: **Dominik Elsässer**

C) Plasma-Astrophysics: **Anne Stockem Novo**