AKjDPG 1: Tutorials

Time: Monday 9:45–13:00 Location: HBR 14: HS 3

Tutorial AKjDPG 1.1 Mon 9:45 HBR 14: HS 3
Overview for young scientists — •Christian Fischer and Claudia Höhne — Justus-Liebig-Universität Gießen, Gießen

We give an introduction and overview on selected topics in the field of hadron and heavy ion physics. The overview is especially dedicated to young colleagues working on their MSc-thesis or their PhD. We will focus on topics that are also discussed in the specialized talks in various sessions at the DGP-meeting. Thus the overview may serve to give some guidance for the meeting.

15 min. break

Tutorial AKjDPG 1.2 Mon 11:30 HBR 14: HS 3
Gravitational Waves: From Theory to Applications in 90 Minutes — •Tobias Schröder and Richard von Eckardstein — Institute for Theoretical Physics, University of Münster, Münster, Germany

In this tutorial, we will give a low-level introduction to gravitational waves. Starting from linearised gravity, we arrive at the notion of gravitational waves and consider their propagation on a Minkowski background. After investigating the effect of gravitational waves on the propagation of light, we use these results to gain insight into modern measurement techniques such as pulsar timing array experiments.

No prior knowledge of general relativity will be required.