





Practical Course in Particle Physics

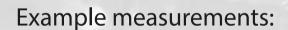
at the Paul Scherrer Institut (PSI, Switzerland), Summer 2019

Perform a real particle physics experiment at a PSI beam-line.

Learn experimental particle physics hands-on.

Join a group of 10-12 students from ETH Zürich and Heidelberg and Mainz Universities for one week of preparartions in Heidelberg and two weeks of beam time at the world's most powerful accelerator at PSI.

Design and build your experiment from available detector components, take data during a 24/7 beam time. Analyse the data and write up the results.



- ° Branching ratio $B(\pi \rightarrow e\nu)/B(\pi \rightarrow \mu\nu)$
- ° Panofsky ratio $B(\pi^-p \rightarrow n\pi^0)/B(\pi^-p \rightarrow n\gamma)$
- ^o Lifetimes and decay parameters of muons and pions





GUTENBERG VERSITÄT MAINZ







Next course: 26.8.-13.9.2019

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The course (MVPSI) is part of the master programme of the faculty for physics and astronomy in Heidelberg