

Freitag, 19. Oktober 2018, 15 Uhr c.t. im Hörsaal I des Physikalischen Instituts

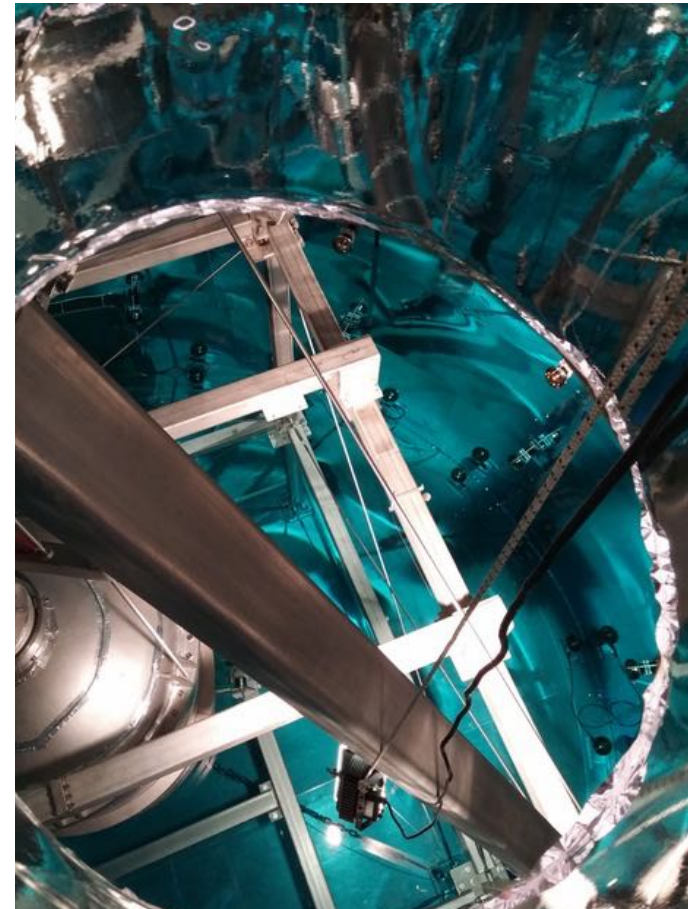


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„The Dark Matter Puzzle: Where do we stand?“

Non-baryonic Dark Matter (DM) outnumbers "regular", baryonic matter by a factor of five to six in the observable universe. While evidence to this conclusion is multi-faceted and solid, the nature of DM remains unknown. It is one of the biggest puzzles in concurrent science. First observed about 85 years ago as a problem of missing mass in cluster dynamics, the phenomenon has been constrained by a breadth of astrophysical and cosmological observations as well as through laboratory non-measurements, leading to the predominant conclusion that we are observing effects of new, non-baryonic particles beyond the Standard Model of physics. The particle DM must have been non-relativistic at the time of structure formation. With underground experiments, we are looking to unravel its nature by searching for feeble interactions of DM with regular matter. This talk will discuss the status and perspectives from the viewpoint of WIMP direct searches, with some glances into other areas.



Nach dem Kolloquium gibt es im Seminarraum 1 (2. Stock, Zi. 2.005) die Gelegenheit, bei Kaffee und Kuchen mit dem Vortragenden zu diskutieren.