



ExtreMe Matter Institute EMMI

EMMI Workshop

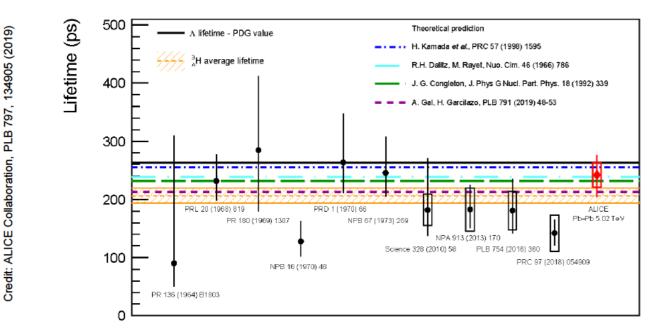
3rd workshop on anti-matter, hyper-matter and exotica production at the LHC

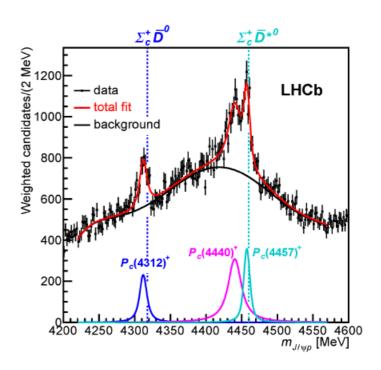
University of Wroclaw, Poland December 2-6, 2019





Topics Organizers - Production of anti-matter in Dönigus, Benjamin – U Frankfurt high-energy collisions Bufalino, Stefania - Politecnico di Torino - Structure of light nuclei and Redlich, Krzysztof - University of Wroclaw exotic compounds Schaffner-Bielich, Jürgen - U Frankfurt - Hypernuclear production Turko, Ludwik - University of Wroclaw and decay - Hyperon-nucleon and hyperon-hyperon interaction - Searches for exotic states composed of light and heavy quarks - Coalescence and thermal model predictions - Applications in astrophysics, in particular neutron stars and mergers - Future experimental and theoretical perspectives





Credit: LHCb Collaboration, PRL, 122, 222001 (2019)

4 days and half with 18 sessions and 41 contributions to discuss the following topics:

Monday 2nd: Overview from experiments (not only heavy-ions) and theoretical approaches plus hypernuclei (present status and perspectives)

Tuesday 3^{rd :} Exotica and strangeness production, hyperon-baryon and hyp-hyp interaction with two-particle correlations (experiment & theoretical predictions)

Wednesday 4th: Exotica, hypernuclear physics plus connection to Astrophysics and compact stars

Thursday 5th: Neutron stars, hypernuclei and hadron-hadron correlation in nuclear collisions

Friday 6th: Bound states, correlations and light nuclei production in heavy-ion collisions

Each day will end with a wrap-up session dedicated to a brainstorming of the discussed topics

- Internet access: the eduroam network is accessible in the workshop room
- Welcome reception (tonight at 7pm) will take place at the the Institute of Theoretical Physics. More details in the afternoon and some infos already at https://indico.gsi.de/event/9423/page/0

All participants are required to wear their badge well visible.

 Conference dinner will be on Thursday 5th and more details will be given later during the week Welcome to all of you for a productive workshop! Let's enjoy talks and discussions on this very active field!