

ExtreMe Matter Institute EMMI

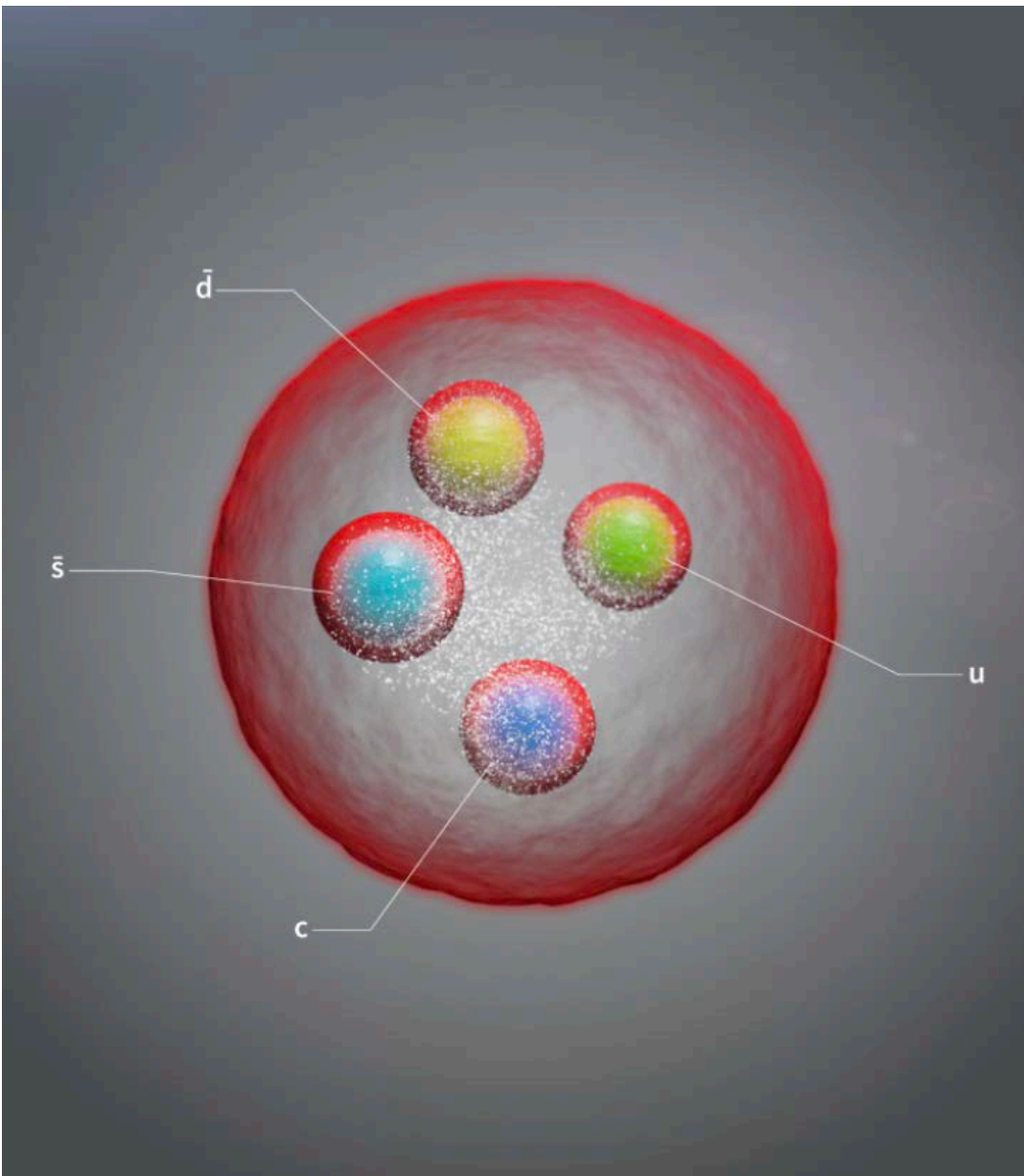
EMMI Workshop

4th Workshop on Anti-Matter, Hyper-Matter and Exotica Production at the LHC

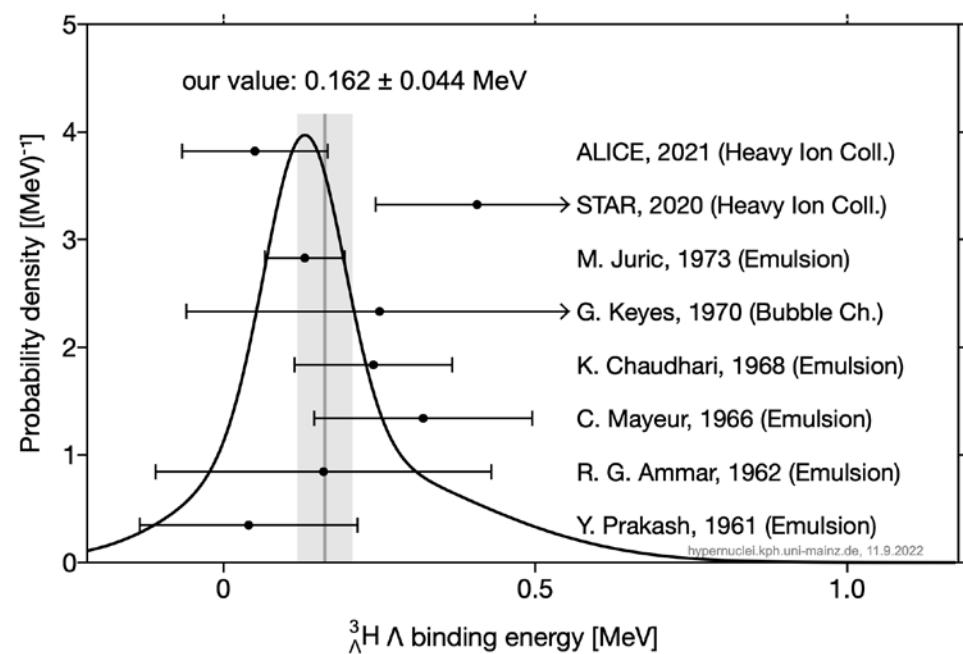
Department of Physics and Astronomy "A. Righi", University of Bologna, Italy
February 13-17, 2023

Topics:

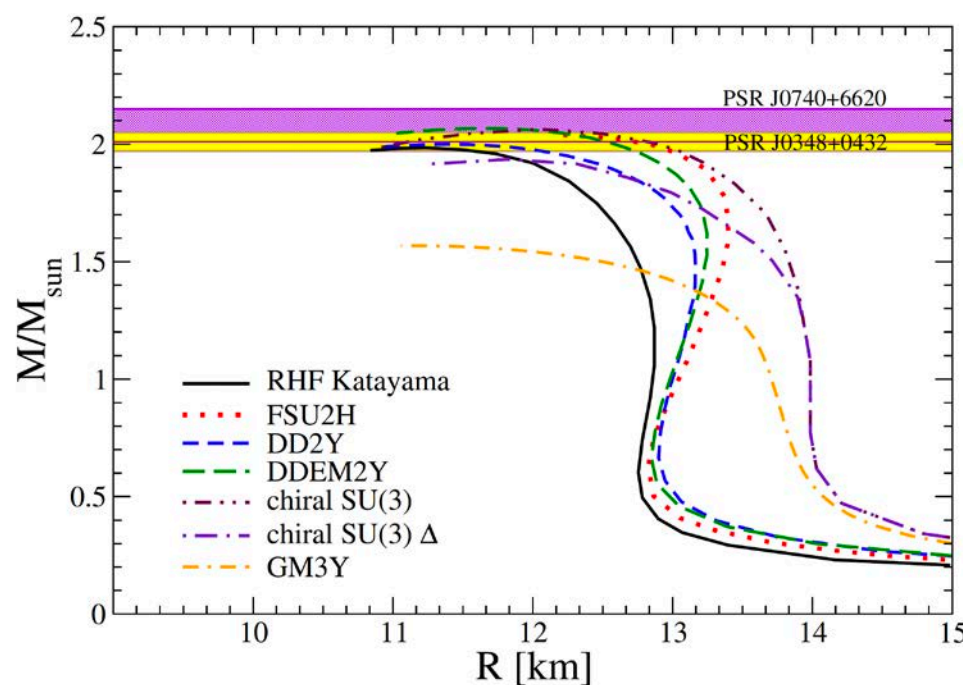
- Production of anti-matter in high-energy collisions
- Structure of light nuclei and exotic compounds
- Hypernuclear production and decay
- Hyperon-nucleon and hyperon-hyperon interaction
- Searches for exotic states composed of light and heavy quarks
- Coalescence and thermal model predictions
- Applications in astrophysics, in particular neutron stars and mergers
- Future experimental and theoretical perspectives



Credit: LHCb Collaboration



Credit: P. Eckert, P. Achenbach, *et al.*,
"Chart of hypernucleides — Hypernuclear structure and decay data", 2021



Credit: D. Logoteta, Universe7 (2021) 11, 408

Organizers:

Francesca Bellini - U Bologna & INFN
Stefania Bufalino - Politecnico di Torino & INFN
Benjamin Dönigus - GU Frankfurt
Jürgen Schaffner-Bielich - GU Frankfurt

Website:

<https://indico.gsi.de/event/15762/>

Information:

www.gsi.de/emmi/workshops

More about EMMI:

www.gsi.de/emmi