

ExtreMe Matter Institute EMMI

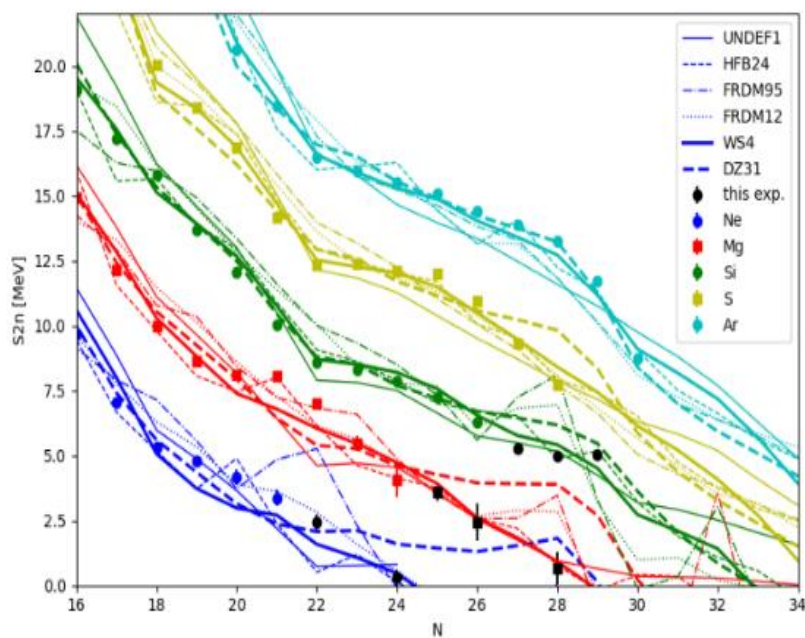
EMMI Workshop

Nuclear masses in astrophysics for the next 25 years

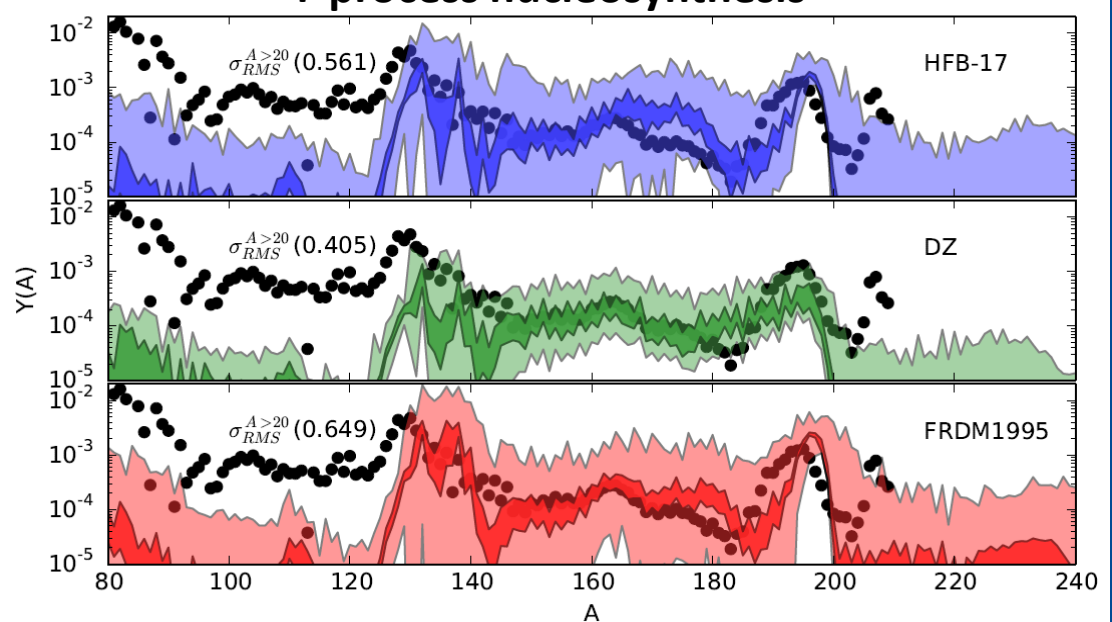
August 18-22, 2025

Welcome Hotel, Darmstadt, Germany

Nuclear mass data



r-process nucleosynthesis



Images: from M. Mumpower, R. Surman, G. C. McLaughlin, A. Aprahamian, PPNP 86 86-126 (2016)

Nucleosynthesis of the heavy elements and the nature of dense matter in neutron stars are two fundamental questions in nuclear astrophysics. The workshop explores their connection with nuclear masses, bringing together diverse topics in mass spectroscopy, theoretical modeling in nuclear physics and astrophysics, and nuclear mass data. The workshop will open with sessions focused on early-career researchers in the field.

Organizers:

Klaus Blaum
Alfredo Estrade
Anu Kankainen
Yuri A. Litvinov
Zach Meisel
Sam Porter

Information:

www.gsi.de/emmi/workshop

Website:

<https://indico.gsi.de/event/22417>

More about EMMI:

www.gsi.de/emmi

