ExtreMe Matter Institute EMMI

EMMI Rapid Reaction Task Force

Nuclear Physics Confronts Relativistic Collisions of Isobars

Heidelberg University, Germany, May 30 – June 3 & October 12 – 14, 2022

Organizers:

Giuliano Giacalone
Jiangyong Jia
Vittorio Somà
You Zhou

Heavy Ion Collisions:

Federica Capellino
Hannah Elfner
Frédérique Grassi
Eduardo Grossi
Jan Hammelmann
Andreas Kirchner
Matthew Luzum
Jaki Noronha-Hostler
Jean-Yves Ollitrault
Nils Saß
Björn Schenke
Chun Shen
Huichao Song
Derek Teaney
Wilke van der Schee

Nuclear Structure:

Anatoli Afanasjev
Benjamin Bally
Jean-Paul Ebran
Dean Lee
Tamara Nikšić
Takaharu Otsuka
Luis Robledo
Tomas Rodriguez
Wouter Ryssens
Yusuke Tsunoda

The first official collaboration between the two fields.

First meeting: 30.05.2022 – 03.06.2022

Venue: Seminarraum @ Philosophenweg 19

Geographical diversity:
10 countries represented
across two hemispheres.

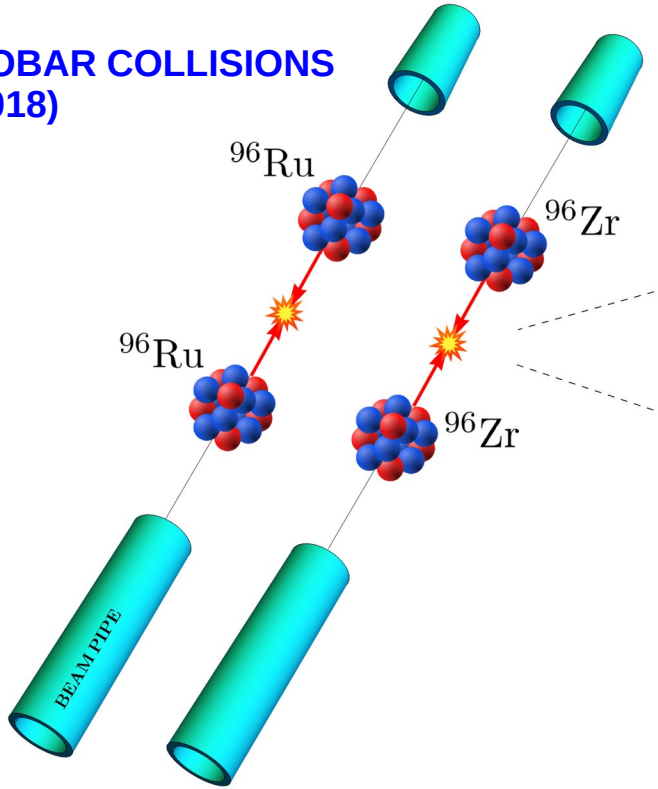
Gender diversity: 25% of Task Force members are female.

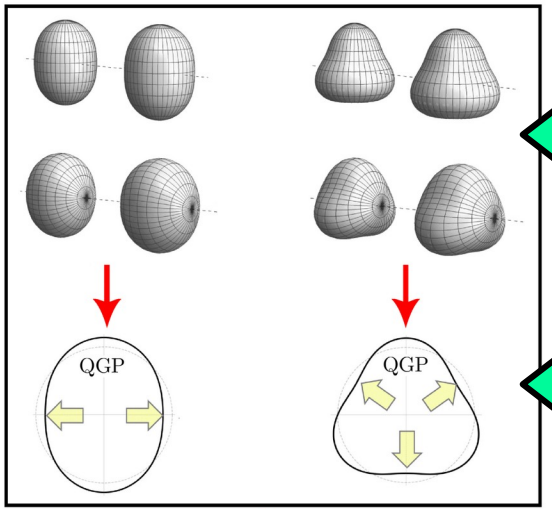
Career diversity: 30% of Task Force members are early-career.
(from PhD students to non-tenured faculty)

SCIENTIFIC GOAL

Formalizing connection between two fields.
Consistent nuclear phenomenology across energy scales.

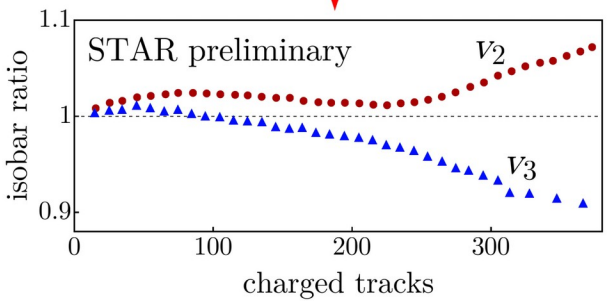
ISOBAR COLLISIONS (2018)





LOW-ENERGY NUCLEAR STRUCTURE

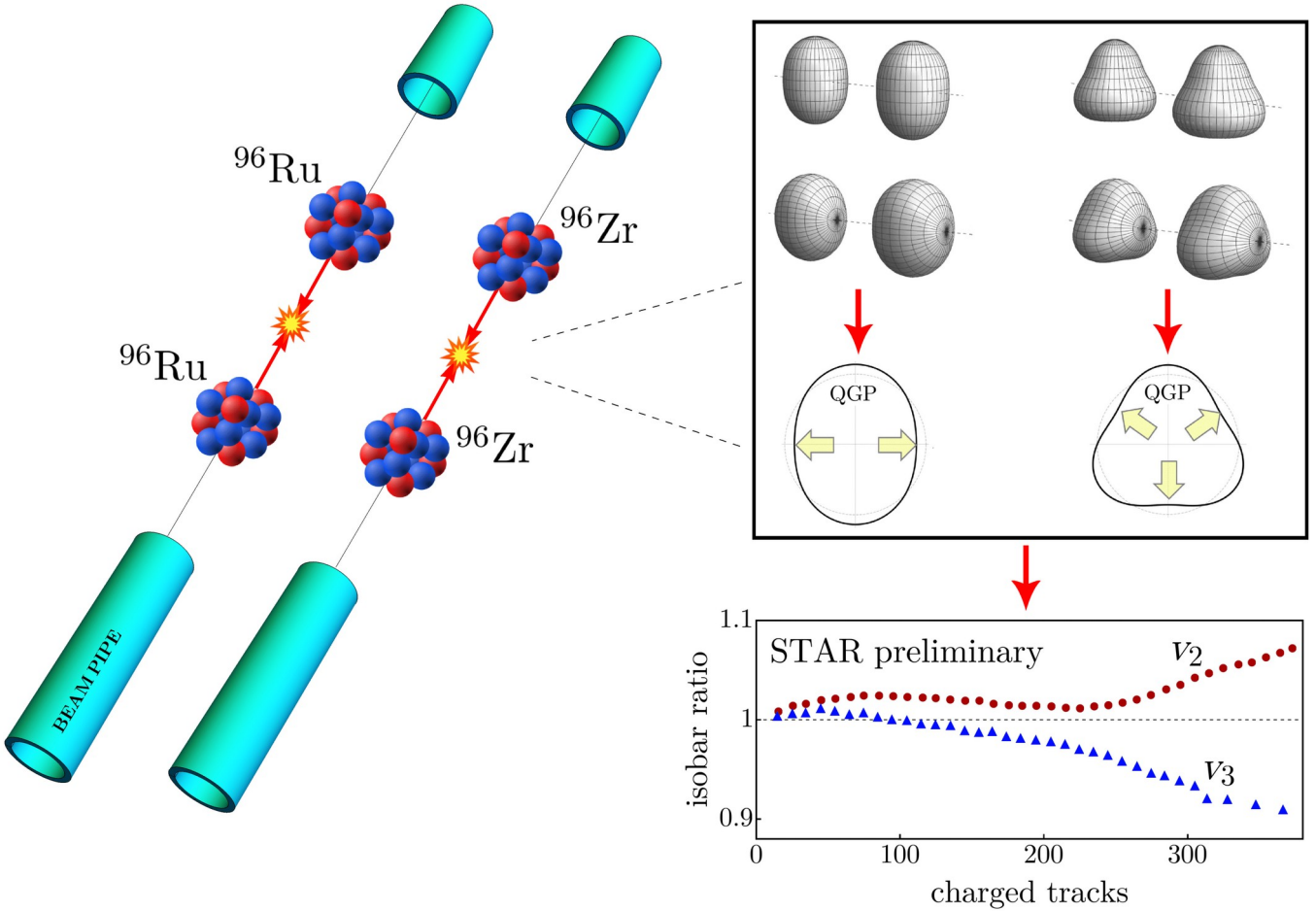
HIGH-ENERGY HEAVY-ION COLLISIONS



Combined effort of two communities to explain data.

ENJOY THE TALKS!

(+ welcome reception)



Website of the event: https://indico.gsi.de/event/14430/