



Experimental and theoretical status of and perspectives for XYZ states

Opening & welcome

Frank Nerling
HFHF, GSI Darmstadt

ExtreMe Matter Institute EMMI

EMMI Workshop

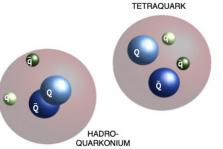
Experimental and Theoretical Status of and Perspectives for XYZ States

In memory of Mikhail Voloshin (March 20, 2020)

GSI Darmstadt, Germany, April 12-15, 2021

Invited Speakers (Experiment):

Peter Braun-Munzinger Sean Dobbs Simon Eidelmann Alexey Guskov Zhiqing Liu Roman Mizuk Sebastian Neubert Marco Pappagallo Cheng-Ping Shen Chengzeng Yuan



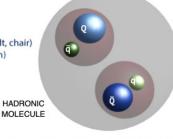
Invited Speakers (Theory):

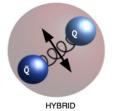
Eric Braaten Nora Brambilla Feng-Kun Guo Luciano Maiani Ulf-G. Meißner Alessandro Pilloni Sinead Ryan Marc Vanderhaegen



Scientific Organisers:

Frank Nerling (GSI Darmstadt, chair) Christoph Hanhart (FZ Jülich)





Logistics and Local Organisation:

Udo Kurilla Anja Meergans Frank Nerling

The workshop focusses on the current status and future perspectives of both theory and experiment in the field of exotic hadrons in the heavy quarkonium mass range. While a majority of the community agrees that the XYZ states have a non- $\bar{q}q$ nature, the internal structure of these states is not yet understood. Key players in the field are Belle (II) (Japan), BESIII (China) and LHCb (CERN). In the future, the gluon-rich process of $p\bar{p}$ annihilation promises new insights.

Online registration: https://indico.gsi.de/e/XYZ-states-2021

Information: www.gsi.de/emmi/workshops More about EMMI: www.gsi.de/emmi

















In commemoration of Misha Voloshin



Mikhail Voloshin 1953 - 2020

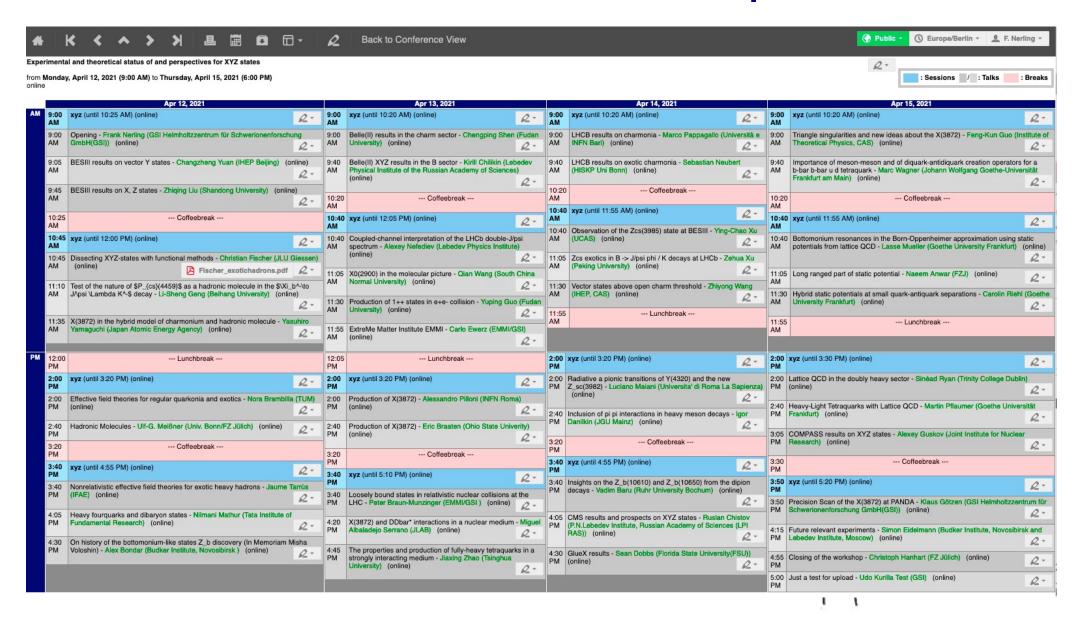


[College of Science and Engineering – University of Minnesota]



EMMI Event: XYZ Workshop







EMMI Event: XYZ Workshop



This workshop has been organised to

- Overview our exciting field of charmonium-like XYZ states, experimentally and theoretically
- Discuss the perspectives and opportunities in view of upcoming facilities and experiments



Let me wish us a very interesting workshop with lively discussions – thank you very much for your participation!