



DOKTORATSKOLLEG GRAZ

"Hadrons in Vacuum, Nuclei and Stars"

GRADUATE DAYS

"The structure of neutron stars from QCD"

Institute of Physics / Theoretical Physics, Graz

November 23-24, 2017

**HS 05.12 and SR 05.11
Universitätsplatz 5, 8010 Graz**

**23rd of November
HS 05.12**

15:00 – 16:15

Dr. Laura Tolos, Institute of Space Sciences (ICE), ES

The Equation of State for Neutron Stars - from Fermi Gas to Interacting Baryonic Matter

16:15-16:45 Coffee break

16:45 – 18:00

Prof. Mark Alford, Ph.D., Washington University in St. Louis, USA

Quark matter and the high-density frontier

18:00 – 19:15

Ass.Prof. Sebastiano Bernuzzi, Ph.D., Università di Parma, IT

Gravitational wave astronomy: new messengers from the Cosmos



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"Hadrons in Vacuum, Nuclei and Stars"

24th of November
SR 05.11

9:00 – 10:15

Prof. Mark Alford, Ph.D., Washington University in St. Louis, USA

Quark matter in neutron stars

10:15 – 10:45 Coffee break

10:45 – 12:00

Dr. Laura Tolos, Institute of Space Sciences (ICE), ES

The Equation of State for Neutron Stars - Hyperonic Matter and The Hyperon Puzzle

12:00-13:15 Lunch break

13:15 – 14:30

Ass.Prof. Sebastiano Bernuzzi, Ph.D., Università di Parma, IT

Modeling gravitational waves from compact binaries

14:30 – 15:15

Discussion of the Doctoral Students with the Speakers