

# Neutron star mergers: From gravitational waves to nucleosynthesis

International Workshop XLV on  
Gross Properties of Nuclei and Nuclear Excitations  
Darmstädter Haus, Hirschegg, Kleinwalsertal, Austria

January 15-21, 2017



## Topics:

- ★ Observations of gravitational waves and electromagnetic signals
- ★ Simulations of compact object mergers and their neutrino-driven winds
- ★ Chemical evolution and nucleosynthesis
- ★ Nuclear physics of the r-process: masses, lifetimes, fission
- ★ Neutron stars from crust to core and equation of state
- ★ Neutrino-matter interactions and oscillation phenomena

## Organizers:

A. Arcones, H. Feldmeier, G. Martínez-Pinedo,  
T. Neff (coordinator), R. Roth, A. Schwenk

## Program advisors:

A. Frebel (Cambridge), K. Langanke (Darmstadt), G. McLaughlin (Raleigh),  
C. Pethick (Copenhagen), L. Rezzolla (Frankfurt), H. Sakurai (Tokyo),  
F.-K. Thielemann (Basel), J. Wambach (Trento)

## Invited speakers:

T. Aumann (Darmstadt), J. Barnes (Berkeley), K. Blaum (Heidelberg),  
N. Chamel (Brussels), J. Engel\* (Chapel Hill), A. Frebel\*  
(Cambridge), P. Freire (Bonn), C. Hansen (Copenhagen), K. Hebeler  
(Darmstadt), T. Janka\* (Garching), J. Lattimer (Stony Brook),  
F. Matteucci\* (Trieste), G. McLaughlin (Raleigh), S. Nishimura  
(Wako), T. Piran (Jerusalem), B. Sathyaprakash (Cardiff),  
S. Reddy (Seattle), L. Rezzolla (Frankfurt), S. Rosswog  
(Stockholm), R. Surman (South Bend), S. Typel (Darmstadt),  
M.-R. Wu (Darmstadt)

\* to be confirmed

## Further information:

<http://theory.gsi.de/hirschegg/2017/>  
Registration deadline: November 30, 2016

