

Session Program

24-29 Jun 2018

Nuclei in the Cosmos XV

Stellar contribution: NS mergers

LNGS, "E. Fermi" conference room
Via G. Acitelli, 22 - 67100 Assergi (Italy)

Friday 29 June

09:00

Stellar contribution: NS mergers

Session | **Location:** LNGS, "E. Fermi" conference room, Via G. Acitelli, 22 - 67100 Assergi (Italy) | **Convener:** Friedrich Thielemann

09:00-09:30

Gravitational-wave and multi-messenger astronomy

Speaker

Marica Branchesi

09:30-09:45

Measuring neutron star properties from thermonuclear bursts

Speaker

Duncan Galloway

09:45-10:00

Nuclear Processes in the Crusts of Accreting Neutron Stars

Speaker

Hendrik Schatz

10:00-10:15

Predicting Neutron Capture Cross Sections from Nuclear Masses: implications for r-process Nucleosynthesis

Speaker

Aaron Couture

10:15-10:30

The $^{59}\text{Cu}(p,a)$ cross section and the heavy element nucleosynthesis in core collapse supernovae

Speaker

Ruchi Garg

10:30-10:45

Impact of electron-captures on nuclei near $N=50$ on core-collapse supernovae

Speaker

Rachel Titus

10:45-11:00

Fission properties relevant for GW170817

Speaker

Matthew Mumpower

11:00