

FRIB and the GW170817 Kilonova
Facility for Rare Isotope Beams (FRIB), 1221B Conference Room
23-27 July 2018
AGENDA

Monday, 23 July 2018

09:00 am *Registration and coffee*
10:00 am Welcome and logistics
10:20 am J. Barnes, Kilonova signatures and the r-process
11:00 am M. Eichler, Theoretical r-process sites and their signatures
11:40 am *Lunch*
01:00 pm Open work/discussion
03:00 pm *Break*
03:30 pm D. Siegel, GW170817: Implications for the astrophysical site of the r-process
04:10 pm L. Roberts, Nucleosynthesis and electromagnetic transients from binary neutron star mergers
04:50 pm *Adjourn*

Tuesday, 24 July 2018

09:00 am C. Horowitz, Neutrino interactions in SN and nucleosynthesis
09:40 am S. Richers, Accurate neutrino transport in supernova and neutron star merger simulations
10:20 am *Break*
10:40 am A. Arcones, The r-process in supernovae and neutron star mergers
11:20 am S. Couch, TBD
12:00 am *Lunch*
01:00 pm Open work/discussion
03:00 pm *Break*
03:30 pm F. Montes, Experimental charged-particle (a,n) reaction studies relevant for the weak r-process
04:10 pm G. Perdikakis, TBD
04:50 pm *Adjourn*

Wednesday, 25 July 2018

09:00 am O. Korobkin, Multiple facets of modeling GW170817 kilonova
09:40 am B. O'Shea, TBD
10:20 am *Break*
10:40 am B. Cote, Modeling the chemical evolution of r-process elements
11:20 am M. Mumpower, Nuclear fission properties for neutron star merger
12:00 am *Lunch*
01:00 pm Open work/discussion
03:00 pm *Break*

03:30 pm Group discussion
04:30 pm *Adjourn*
06:00 pm *Group social dinner*

Thursday, 26 July 2018

09:00 am J. Cizewski, Surrogate neutron capture reaction prospects for weak r-process nuclei
09:40 am A. Spyrou, Neutron capture reaction constraints for r-process
10:20 am *Break*
10:40 am A. Kankainen, Experiments for the r process at IGISOL
11:20 am J. Clark, Examining r-process nucleosynthesis in neutron star mergers through mass measurements with the CPT
12:00 am *Lunch*
01:00 pm Open work/discussion
03:00 pm *Break*
03:30 pm S. Naimi, The Rare-RI Ring ready to conquer terra incognita: mass measurement of r-process nuclei at RIKEN
04:10 pm A. Kwiatkowski, Approaching the r-process path with precision mass spectrometry at TITAN
04:50 pm *Adjourn*

Friday, 27 July 2018

09:00 am M. Brodeur, Future developments for high precision mass spectrometry to study the r-process
09:40 am J. Engel, Beta decay for the r process
10:20 am *Break*
10:40 am E. Litvinova, Spectra from thermal relativistic nuclear field theory
11:20 am C. Robin, Nuclear transitions for r-process studies in relativistic nuclear field theory
12:00 am *Lunch*
01:00 pm Open work/discussion
03:00 pm *Break*
03:30 pm Open work/discussion
04:30 pm *Adjourn*