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, Core-collapse supernovae as the initial conditions of neutron star mergers
12:00 pm  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, Neutron-induced reaction rates away from stability for astrophysics applications
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, Predictive chemical evolution in the era of large surveys: challenges and opportunities
10:20 am  Break
10:40 am  B. Coté, Modeling the chemical evolution of r-process elements
11:20 am  M. Mumpower, Nuclear fission properties for neutron star mergers
12:00 pm  Lunch
01:30 pm  FRIB tour (closed-toed shoes and covered legs required)
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 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 pm  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 pm  Lunch
01:00 pm  Work on contributions to the deliverable
03:00 pm  Break
03:30 pm  Open work/discussion
04:30 pm  Adjourn