Constrain the symmetry energy in the nuclear equation of state over a range of densities
- Directly addresses FRIB science benchmark: “nature of neutron stars and dense nuclear matter”

Conduct a series of experiments at unique facilities in the U.S., Japan, and Germany to explore densities $0.4 \rho_0 < \rho < 3 \rho_0$

Formed a strong international team of experimental and theoretical scientists to carry out and interpret experiments

Attract and train early U.S. career scientists, and help them build strong international ties

Status of current constraints on the symmetry energy

http://www.dailygalaxy.com/photos/uncategorized/2007/08/21/neutron_star_1_2.jpg