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Nuclear constraints on properties of rotating neutron stars PLAMEN KRASTEV, TAMU-Commerce and San Diego State University, AARON WORLEY, BAO-AN LI, Texas A&M University-Commerce — Nuclear reactions with radioactive beams provide unique means to constrain the equation of state (EOS) of neutron-rich matter, in particular its density dependence through the nuclear symmetry energy. The EOS is important for our understanding of numerous phenomena in both nuclear physics and astrophysics. In this talk we will present our most recent results on the properties of rotating neutron stars with a particular emphasis on rapid rotations.

Plamen Krastev
TAMU-Commerce and San Diego State University

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