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EoS Studies with the SpiRIT TPC in the SAMURAI spectrometer

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The density dependence of the nuclear symmetry energy governs important aspects of very neutron rich systems such as heavy nuclei and neutron stars. Many observables and experiments have been employed to probe the symmetry energy in regions below saturation density and constraints are emerging. At RIKEN, the SpiRIT TPC and SAMURAI collaborations have completed a first campaign to extend these constraints to supra-saturation densities. I will discuss some of the scientific ideas to be explored in future campaigns with this powerful new device. This work is supported by the U.S. DOE under Grant Nos. DE-SC0004835, DE-SC0014530, DENA0002923, US NSF Grant No. PHY-1565546, the Japanese MEXT KAKENHI grant No. 24105004.

Summary

I will summarize the present status of the field and of the SpiRIT TPC and its experimental program. I will discuss possible new initiatives with these devices at RIKEN.

Primary author: Prof. LYNCH, William (Michigan State University)

Co-authors: Prof. TSANG, Betty (Michigan State University); ISOBE, Tadaaki (RIKEN)

Presenter: Prof. LYNCH, William (Michigan State University)

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