

Dense nuclear and quark matter in compact stars

Friday, July 15, 2016 9:45 AM (45 minutes)

I will review how compact stars can serve as a laboratory for fundamental physics, and how the latest astrophysical data can be used to put constraints on the properties of dense QCD matter, for example on its equation of state and on hydrodynamical properties of nuclear and quark superfluids. In the second, more specific, part of the talk, I will present latest results on employing holographic methods to obtain a strong-coupling equation of state for both nuclear and quark matter within a single model.

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Session Classification: Plenary