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Holographic nuclear matter with isospin asymmetry

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I will present the latest progress in describing ultra-dense matter within the gauge-gravity correspondence. Using the holographic Sakai-Sugimoto model, I will discuss the phase structure at nonzero baryon and isospin chemical potentials, in particular pointing out the coexistence of baryonic matter and a pion condensate. As an application, I will show how this holographic approach can be used to construct neutron stars entirely within a single framework, including the crust of the star.

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