## — 第972回九大原子核セミナー —

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演題: Nuclear "pasta" structures and symmetry energy

日時: 11月26日(木)16:00~

場所: (※ オンラインセミナー)

## 概要

In the framework of the relativistic mean field model with Thomas-Fermi approximation, we study the structures of low density nuclear matter in a fully three-dimensional geometry. Typical pasta structures (droplet, rod, slab, tube, and bubble) arranged in various crystalline configurations are obtained for both fixed proton fraction and cold catalyzed matter. By introducing an  $\omega$ - $\rho$  cross coupling term, we further examine the pasta structures with smaller symmetry energy slope L = 41.34 MeV, which is consistent with various constrains from nuclear physics and pulsar observations.

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2020年10月26日