

Abstract Submitted
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Spin Response of the Nuclear Pasta JUTRI TARUNA, JORGE PIEKAREWICZ, Florida State University — Neutron-rich matter at subnuclear densities, such as the one present in the crust of a neutron star, displays fascinating complex structures known as pasta phases. Results for the two-body - spin-isospin dependent - correlation function in the nuclear pasta are presented. These results are obtained via semi-classical Monte-Carlo simulations with a Hamiltonian that incorporates a “semi-classical” short-range spin-dependent term that is added to simulate Pauli correlations.

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