

## Quark matter: the high density frontier

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I will describe what the standard model leads us to expect for the densest phase of matter: quark matter. Quark matter is predicted to have a rich phase structure, including color superconductors, superfluids, insulators, and crystals.

Quark matter may exist in nature, formed in the ultra-compressed cores of neutron stars: I will review the search for signatures of its presence.

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