

WE Heraeus Physics School und 62. Karpacz Winter School in Theoretical  
Physics "Multimessenger Astrophysics and Cosmology"

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## Two talks on dense matter (Part 2)

*Wednesday, 4 March 2026 10:00 (1 hour)*

Solid quark matter. I will review three ways in which quark matter can occur in a solid phase, where translational invariance is broken by some sort of crystalline structure. These include a color superconductor of the Fulde-Ferrell-Larkin-Ovchinnikov type, mixed phases that can arise at a nuclear/quark matter interface, and the strangelet crystal crust of a strange star.

**Presenter:** ALFORD, Mark