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Towards the equation of state of color-superconducting strong-interaction matter

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We investigate the formation of a color superconductor in dense strong-interaction matter as associated with the dynamical generation of a gap in the quark excitation spectrum. To this end, we employ the Wetterich equation and solve it with numerical methods borrowed from fluid dynamics, without making any further assumptions about the form of the effective potential. We critically assess approximation artefacts by comparing qualitative and quantitative differences between mean field and local potential approximation flows.

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