

“CHIRAL SYMMETRY IN STRONGLY INTERACTING MATTER”

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Recent developments are reviewed concerning the QCD interface with nuclear physics, based on chiral effective field theory as the low- energy realization of Quantum Chromodynamics. The important roles of pions and the tensor force in the nuclear many-body problem are highlighted.

Chiral thermodynamics and the nuclear equation of state are discussed, and the energy dependence of the chiral (quark) condensate is investigated.

Our present understanding of symmetry breaking patterns in the chiral, and deconfinement transitions and the QCD phase diagram are outlined.

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The Colloquium will be given in English.

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