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Recent results on the phi meson in dense matter from theory and experiment

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The status of recent theoretical and experimental research related to the properties of the phi meson in nuclear matter is reviewed, focusing on observables that were/will be measured at the KEK E325, J-PARC E16 and J-PARC E88 experiments, including dilepton and K^+K^- decay modes and their angular distributions. The relation of these observables to fundamental properties of nuclear matter, such as chiral symmetry, its partial restoration in nuclear matter, in-medium Lorentz and charge symmetry violation and the resultant modification of hadronic dispersion relations, will also be discussed.

Author: GUBLER, Philipp

Presenter: GUBLER, Philipp

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