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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 will be measured at the J-PARC E16 experiment, 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.

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