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Quantum sensors for particle physics: the NAMASSTE project

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Answering the most puzzling questions in fundamental physis posed by HEP drives a continuous quest for improvements in current particle detection techniques as well as for the development of new ones. Among the novel detection approaches under investigation, the development of innovative devices based on exploiting the extreme sensitivity of quantum systems is considered to have promising potentialities. After an introduction to this rapidly-developing interdisciplinary field, the INFN R&D project NAMASSTE is presented as an example in a wide range of quantum technologies and methodologies which are currently being actively explored for the development of new detection techniques.

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