

Vulcano Workshop 2018 - Frontier Objects in Astrophysics and Particle Physics



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New physics searches with NA62

The NA62 experiment at CERN is designed to measure precisely the rare decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$. The intensity and energy of the primary (proton) and secondary (Kaon) beams, as well as the hermetic detector coverage and overall geometry, give in addition the opportunity to search for hypothesized weakly-coupled particles. I will review these opportunities, present results and sketch the prospects of some pertinent searches.

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