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"K+ -> pi+ nunubar: first NA62 results"

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The decay K+->pi+nunu with a very precisely predicted branching ratio of less than 10⁻¹⁰ is one of the best candidates to reveal indirect effects of new physics at the highest mass scales. The NA62 experiment at CERN SPS is designed to measure the branching ratio of the K+->pi+nn with a decay-in-flight technique, novel for this channel. NA62 has taken data firstly in 2016 with the aim to reach the SM sensitivity, it has then collected 10 times more statistics in 2017 and a similar amount of data is expected from the 2018 run. The preliminary result on K+->pi+nunu from the full 2016 data set is presented and prospects for future developments reviewed.

Summary

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