



Contribution ID: 124

Type: **not specified**

Search for π^0 decays to invisible particles at the NA62 experiment

Wednesday 25 August 2021 16:40 (20 minutes)

A study of a sample of $4 \cdot 10^9$ tagged π^0 mesons from $K^+ \rightarrow \pi^+ \pi^0 (\gamma)$ is performed at the NA62 experiment at CERN, searching for the decay of the π^0 to invisible particles. No signal is observed in excess of the expected background fluctuations. An upper limit of $4.4 \cdot 10^{-9}$ is set on the branching ratio at 90% C.L. improving on previous results by a factor of 60.

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Session Classification: Flavor Physics and CP Violation

Track Classification: Flavor Physics and CP Violation