



Contribution ID: 194

Type: **not specified**

search for K^+ to $\pi^+ \nu \nu$ at NA62

Thursday, April 19, 2018 9:50 AM (25 minutes)

$K^+ \rightarrow \pi^+ \nu \nu$ is one of the theoretically cleanest meson decay where to look for indirect effects of new physics complementary to LHC searches. The NA62 experiment at CERN SPS is designed to measure the branching ratio of the $K^+ \rightarrow \pi^+ \nu \nu$ decay with 10% precision. NA62 took data in 2015-2017; the analysis of a partial data set allows to reach the Standard Model sensitivity. The status of the experiments will be reviewed, and prospects will be presented.

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Session Classification: WG4-WG5 Joint Session

Track Classification: WG5: Physics with Heavy Flavours