



Contribution ID: 707

Type: Parallel talk

Improved determination of V_{us} with tau decays

Saturday, July 13, 2019 12:40 PM (20 minutes)

We present improved determinations of $|V_{us}|$ with tau decays relying on the HFLAV tau branching fractions global fit results. The HFLAV results are to be included in the 2019 HFLAV report and use the recent new BaBar measurements of:

- the branching fractions of the processes $\tau^- \rightarrow K^- n\pi^0 \nu_\tau$ with $n=1,2,3$ and $\tau^- \rightarrow \pi^- n\pi^0 \nu_\tau$ with $n=3,4$;
- the branching fraction $\tau^- \rightarrow K^- \bar{K}_S^0 \nu_\tau$;

which were not included in the Spring 2017 HFLAV report.

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Session Classification: Flavour Physics and CP Violation

Track Classification: Flavour Physics and CP Violation