

Prospects for Measuring BR(KL \rightarrow pi0 nu nu) at the CERN SPS

The feasibility of measuring of BR($K_L^0 \rightarrow \pi^0 \nu \bar{\nu}$) using a high-energy secondary neutral beam at the CERN SPS is being studied. Assuming reuse of the NA48 liquid-krypton calorimeter and some of the NA62 infrastructure, the studies suggest a sensitivity approaching that proposed by KOTO Step 2 is achievable in five years of running. We summarize the studies thus far carried out.

Summary

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