

Rare meson decay constraints on dark photon and the like

Tuesday, 17 February 2026 17:00 (20 minutes)

We evaluate constraints from flavor changing rare meson decays to a light vector boson X , followed by the decay of the on-shell X into the SM fermions. Our theoretical evaluation of the branching ratio of charged B meson decay and charged kaon decay is compared to experimental results, and we derive new constraints for dark photon, $U(1)_{B-L}$ and $U(1)_R$ models.

Presenter: SETO, Osamu

Session Classification: parallel session B: Flavor