

## 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