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## **Electromagnetic corrections in hadronic tau decays**

*Monday, 4 December 2023 13:30 (20 minutes)*

We study the isospin-breaking and electromagnetic corrections of hadronic tau decays, which can also be utilized to extract the CKM matrix element  $V_{us}$ . Our analysis extends previous work by Antonelli et al. using ChPT with resonances. Our findings show the importance of these corrections in distinguishing between the  $\pi^- \bar{K}^0$  and  $K^- \pi^0$  modes, beyond the Low approximation. The  $K^- K^0$  channel is also discussed.

### **Name of collaboration or list of co-authors**

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