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## Recent progress in kaon 4-body semileptonic decays

*Tuesday, September 10, 2019 2:50 PM (25 minutes)*

I will report on recent studies of the decays  $K^{*+} \rightarrow \pi^+ \pi^0 e^+ e^-$  and  $K_S \rightarrow \pi^+ \pi^- e^+ e^-$ , focusing on their role as chiral tests. I will discuss how a precise enough measurement of any of these decay modes at CERN would help to complete the experimental determination of the NLO chiral counterterms involved in radiative kaon decays. I will also comment on the existing theoretical estimates for these counterterms and to what extent they are compatible with the present experimental numbers.

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**Session Classification:** Semileptonic and 4 bodies kaon decays and CKM matrix