



Contribution ID: 132

Type: **Invited talk**

On the rare CP conserving $K \rightarrow \pi l^+ l^-$ decays

Thursday, August 2, 2018 4:20 PM (30 minutes)

The properties of the form factors describing the rare CP conserving decay modes $K \rightarrow \pi l^+ l^-$, $(K, \pi) = (K^\pm, \pi^\pm)$ or (K_S, π^0) , $l = e, \mu$, are addressed. First, a full two-loop representation of the corresponding form factors in the low-energy expansion is constructed. Next, the contribution from pi-pi intermediate states is considered from a dispersive point of view. Particular attention is given to the matching with the short-distance behaviour of the form factors. Finally, phenomenological aspects of this study are discussed.

Primary authors: Dr KNECHT, Marc (CPT/CNRS); Dr GREYNAT, David; Dr D'AMBROSIO, Giancarlo (Univ. Napoli)

Presenter: Dr KNECHT, Marc (CPT/CNRS)

Session Classification: Light quarks

Track Classification: B: Light quarks