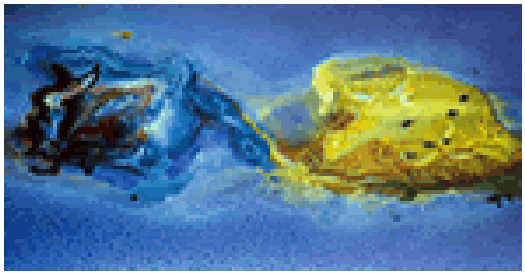

Contribution ID: **132** Type: **Invited talk**

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

Thursday, 2 August 2018 16:20 (30 minutes)

The properties of the form factors describing the rare CP conserving decay modes $K \to \pi l^+ l^-$, $(K, \pi) = (K^\pm, \pi^\pm)$ 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.

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Session Classification: Light quarks

Track Classification: B: Light quarks