Contribution ID: 27

Type: not specified

The s -> d gamma decay in and beyond the Standard Model

Tuesday 12 April 2011 17:10 (25 minutes)

FCNC are suppressed in the Standard Model, and thus constitute our best tools to search for New Physics in low-energy flavor experiment. In this talk, the phenomenology of the s -> d gamma transition is analyzed. In a first part, the anatomy of the Standard Model contributions is reviewed, emphasizing the similarities and differencies with that of b -> s gamma. Besides, it is shown that the radiative transitions could hold the key to the theoretical control of epsilon'/epsilon. Then, a systematic study of the possible New Physics impacts is performed by combining all the FCNC transitions in the s -> d sector, i.e. epsilon', rare K decays, and radiative decays, first in a model-independent setting and then in the MSSM.

Author: SMITH, Christopher (IPN Lyon) Presenter: SMITH, Christopher (IPN Lyon) Session Classification: Kaons