



# CERN Joint EP/PP & LPCC/EP/PP Seminar

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TITLE: **"Study of Phi meson radiative decays at Kloe, eta/etaprime mixing angle and etaprime gluonium content "**

DATE: Tue 28/09/2010 11:00

PLACE: 222-R-001

## ABSTRACT

Radiative Phi decays to scalars  $a_0$ ,  $f_0$ ,  $\sigma$  and to pseudoscalars  $\eta$  and  $\eta'$  have been studied by the KLOE experiment at the DAFNE Phi factory.

The decays of scalars to  $\pi\pi$  and  $\eta\pi$  have been analyzed according different theoretical models to infer information on their internal structure ( $q\bar{q}$  or four-quark states, or  $KK$  molecules).

Precise measurements of the radiative Phi decays to  $\eta$  and  $\eta'$  allow to estimate the  $\eta/\eta'$  mixing angle. The impact of these measurements on the issue of the gluonium fraction inside the  $\eta'$  is discussed.