

01 SPECTROSCOPY

KLOE results on scalar and pseudoscalar mesons

P. Gauzzi (for the KLOE collaboration)

Sapienza Università di Roma and INFN Sezione di Roma P.le A.Moro, 2 - 00185 Rome (Italy)

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摘要 The data collected by the KLOE Collaboration at the Frascati ϕ -factory DAΦNE from 2001 to 2006 have been used for extensive studies in meson spectroscopy. The decays of the scalar mesons $a_0(980)$ and $f_0(980)$ into two pseudoscalar mesons have been exploited to measure the relevant parameters of those resonances. The radiative decays $\phi \rightarrow \eta\gamma$ and $\eta' \rightarrow \gamma$ have been used for the determination of the pseudoscalar mixing angle and to search for a possible gluonium content in the η' . The dynamics of the $\eta \rightarrow 3\pi$ decay has been studied and the Dalitz Plot parameters have been measured. The large amount of η mesons produced allowed also to study interesting rare η decays.

关键词 [\$e^+e^-\$ interactions, \$\phi\$ -factory, scalar mesons, pseudoscalar mesons](#)

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DOI:

通讯作者:

P. Gauzzi Paolo.Gauzzi@roma1.infn.it

作者个人主页:

P. Gauzzi (for the KLOE collaboration)

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