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Hadron spectroscopy and exotics (experiment and theory)

Experiment: KLOE

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# Study of the decay $\phi \rightarrow \pi^0 \pi^0 \gamma$

The KLOE Collaboration

## Abstract

We have measured the branching ratio  $\text{BR}(\phi \rightarrow \pi^0 \pi^0 \gamma)$  with the KLOE detector using a sample of  $\sim 5 \times 10^7$   $\phi$  decays. The  $\phi$  mesons are produced at DAΦNE, the Frascati  $\phi$ -factory. We find  $\text{BR}(\phi \rightarrow \pi^0 \pi^0 \gamma) = (1.09 \pm 0.03 \pm 0.05) \times 10^{-4}$ . We fit the two-pion mass spectrum to models to disentangle contributions from various sources.

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