

# Testing fundamental physical principles with entangled neutral $K$ mesons

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## Collaboration

## Abstract content

The neutral kaon doublet is one of the most intriguing systems in nature. Entangled pairs of neutral K mesons produced in  $\phi$  decays offers a unique possibility to perform very precise tests of fundamental discrete symmetries in nature, as well as of basic principles of quantum mechanics. The most recent results will be reviewed and perspectives in the field will be discussed.

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