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Status and prospects for the KLOE-2 experiment

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The KLOE experiment is going to start a new data taking campaign (as KLOE-2) at DAFNE, the e^+e^- collider of the Frascati Laboratories of INFN.

The machine colliding scheme has indeed been modified by using a crabbed waist scheme in the interaction region. An increase of about a factor 3 in luminosity is expected which should grant $O(20 \text{ fb}^{-1})$ in few years of running.

The KLOE-2 detector has also been upgraded with the insertion of small angle taggers for gamma-gamma physics. The construction of larger upgrades such as an Inner Tracker, close to the interaction point, and two small angle calorimeters is underway with the aim of completing their insertion at the end of next year. The KLOE-2 scientific program aims to improve the experimental studies on hadronic physics at low energy and on kaons, e.g. low energy QCD, gamma-gamma physics, the contribution of hadron vacuum polarization to the muon anomalous magnet, CKM unitarity and Lepton Universality, CPT symmetry and quantum mechanics' studies.

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