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Calibration and reconstruction for the TOF system of BESIII

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The BESIII TOF detector system based on plastic scintillation counters consists of a double layer barrel and two single layer end caps. With the time calibration, the double-layer barrel TOF achieved 78ps time resolution for electrons, and end cap is about 110ps for muons. The attenuation length, effective velocity calibrations and TOF reconstruction are also described. The Kalman filter method is employed to calculate the predicted time instead of taking the track trajectory as a standard helix.

Student? Enter 'yes'. See <http://goo.gl/MVv53>

no

Author: Dr SUN, Shengsen (Institute of High Energy Physics Chinese Academy of Sciences)

Presenter: Dr SUN, Shengsen (Institute of High Energy Physics Chinese Academy of Sciences)

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