

Status of the DCBA/MTD experiment

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Drift Chamber Beta-ray Analyzer (DCBA) experiment is a double beta decay experiment that uses drift chambers as the detector of beta-rays. Two beta-rays are emitted from Mo-100 (or Nd-150 in future) contained in a thin source plate that is placed between two drift chambers.

By measuring helical trajectories of two beta-rays using drift chambers, one can extract full kinematics of a double beta decay.

DCBA experiment is performed at KEK, Japan. Current experiment named DCBA-T2.5, is running since 2011.

In this session, we present current status of the DCBA experiment and we also present the future project, Magnetic Tracking Detector (MTD) experiment.

Primary author: Dr KAKUNO, Hidekazu (Tokyo Metropolitan University)

Presenter: Dr KAKUNO, Hidekazu (Tokyo Metropolitan University)

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