



Contribution ID: 16

Type: **not specified**

Beta-spectroscopic constraints on neutrino masses and status of KATRIN

Friday, November 6, 2015 10:10 AM (30 minutes)

Precision measurements of the endpoint region of tritium beta-spectrum have provided the best upper limit of the effective mass of the electron antineutrino. The advantages and drawbacks of this kinematic, an almost model independent, method will be reviewed. The status of the KATRIN experiment aiming at ten times higher sensitivity will be described. Several new approaches will be outlined.

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