



Contribution ID: 178

Type: **Parallel Talk**

## Electroweak precision measurements with the CMS detector

*Thursday, 6 July 2017 10:30 (15 minutes)*

We report on the status of the precision measurements of electroweak parameters with W and Z bosons with the CMS detector. The effective electroweak mixing angle  $\sin^2_{\text{eff}}(\theta)$  is extracted by measuring the forward-backward asymmetry in dilepton events near the Z boson mass region. Experimental and theoretical challenges needed for a high-precision W boson mass measurement are reported using a sample of Z  $\rightarrow$   $\mu\mu$  events.

### Experimental Collaboration

CMS

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