Contribution ID: **47** Type: **oral presentation**

Production of RPC gaps for CMS upgrade

Wednesday, 8 February 2012 12:10 (20 minutes)

The CMS collaboration intends to improve the muon trigger efficiency in the forward region.

In order to achieve this goal, 144 new Resistive Plate Chambers (RPCs) at RE4/2, RE4/3 will be installed on the existing york YE3 to trigger high momentum muons from the proton-proton interaction.

In this paper, we present the detailed procedures used in the production of the CMS RPC gas gaps adopted in the CMS upgrade.

Quality assurance is enforced as ways to maintain the quality of RPC gas gaps as the previous CMS endcap RPC chambers.

Both the production procedures and the quality assurance are mature and effective for the mass production of these RPC gas gaps.

Key words: CMS, Resistive Plate Chamber (RPC), Muon trigger detector, Production procedures, Quality assurance

Primary author: CMS, RPC (CMS)

Presenter: Prof. PARK, Sung Keun (Korea University)

Session Classification: Ageing and interactions with materials

Track Classification: Ageing and interactions with materials