



Report on my activity in the framework of the RPC group in the CMS experiment

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Upgrade Meeting of the RPC group, 06 December 2016

The main goal:

Checking on the consistency of the configuration of the RE3/1 and RE4/1 chambers with the surrounding elements

The main tasks:

- Make the 3D model of the RE3/1 & 4/1 chambers;
- Make the 3D model of the assembly consisting with RE3/1 & 4/1 chambers;
- Placement of the RE3/1 & 4/1 in the assembly of the return yokes;
- Understand the possibility of the RE3/1 chambers mounting;
- Define the distance (free space for possibility of electronics board setting) between RE3 and ME3 , RE4 and ME4.

CMS Parameter Drawing





Location RE4/1 and RE3/1 in the CMS



RE3/1 & RE4/1 envelopes



Dimetric

* Name of the file: Assembly_Trapezoids_labels_RE31.STEP

Assembly of the YE3 and new RE3/1 chambers



*Assembly of the YE3 and new RE3/1 chambers



*Mounting posts for RE3/1



Ian Crotty

* Name of the file: HighEtaParaSpaceRPCIanFeb2014V2.pptx

Drawing with mounting holes on the YE3



Mounting of the RE3/1 chambers



* Determination free space between ME3 and RE3/1



✓ Distance between YE3 and ME3

Image: Constraint of the second secon



Name of the file: Integration of the YE2 and YE3 with RE31.STEP

Reducing volume of the Cylindrical shielding



Determination free space between ME4 and RE4/1

✓ Distance between Neutron Shielding of YE4 and ME4





Thank you for your attention!

Pseudorapidity

