

Summary of the MEC Workshop

Target Session
GSI
December 2013

The logo for GSI (Gesellschaft für Schwerionenforschung) features the letters 'GSI' in a bold, black, sans-serif font. To the right of the 'I' is a vertical yellow bar topped with a solid orange circle.

Bundesministerium
für Bildung
und Forschung



WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER










Alexander Täschner
(taschna@uni-muenster.de)

Mechanics Workshop at CM XLVII.

Monday 09 December 2013 from 09:00 to 16:00 (Europe/Berlin)

at GSI (TSR)

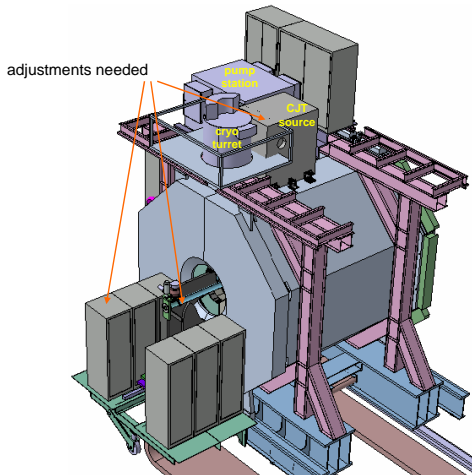
Monday 09 December 2013

- 09:00 - 10:30 **Status of Integration**
- 09:00 **Overview of CAD Status 30'**
Speaker: Jost Lühning (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))
Material: [Slides](#) 
- 09:30 **Individual System CAD Status 30'**
Material: [Slides](#)   
- 10:00 **Discussion 20'**
- 10:30 - 11:00 Break
- 11:00 - 13:00 **Details of Target Spectrometer**
- 11:00 **Issues in Forward Endcap Integration 30'**
Speaker: Jost Lühning (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))
Material: [drawings](#) 
- 11:30 **Discussion 30'**
- 12:00 **Layout of Target Platform 20'**
Speaker: Alexander Täschner (Institut für Kernphysik, Westfälische Wilhelms-Universität Münster)
Material: [Slides](#) 
- 12:20 **Discussion 20'**
- 13:00 - 14:00 Lunch
- 14:00 - 16:00 **Planning**
- 14:00 **Hall and Installation Planning 20'**
Speaker: Lars Schmitt (FAIR GmbH)
Material: [Slides](#) 
- 14:20 **Discussion 20'**
- 14:40 **MVD Cooling System 20'**
Speakers: Silvia Celi (INFN Torino), Daniela Calvo (Istituto Nazionale di Fisica Nucleare (INFN)(IFN Torino))
Material: [Slides](#) 
- 15:00 **Beam Pipe and MVD 20'**
Speakers: Giuseppe Giraudo (INFN Torino), Daniela Calvo (Istituto Nazionale di Fisica Nucleare (INFN)(INFN-Torino))
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- 15:30 **Status of Lumi Mechanics 20'**
Speaker: Prometeusz Jasinski (Kernphysik Mainz)

Some Considerations about 3D-Integration Model

- In order to avoid long loading times and clumsy displays the **file size of all components has be small**.
- The responsible CAD designers are asked to post such a small model in EDMS, apart from the detailed model. **Only the boundaries of the components are needed**. However, a simple indication of the inner set-up of a component is welcome. It does not blow up the file size and it improves the understandability. Assistance for downsizing big models is offered by the integration group.
- The size of the **3D-integration model** should be less than **50 MB in uncompressed STEP-format**.
- For a better insight in the overview model, one half of the Target Spectrometer was omitted. For the integration model both halves are needed. Question: how should the components be organized in the model?
- Cable ducts and supply line ducts should be included.










Status of Target Spectrometer III



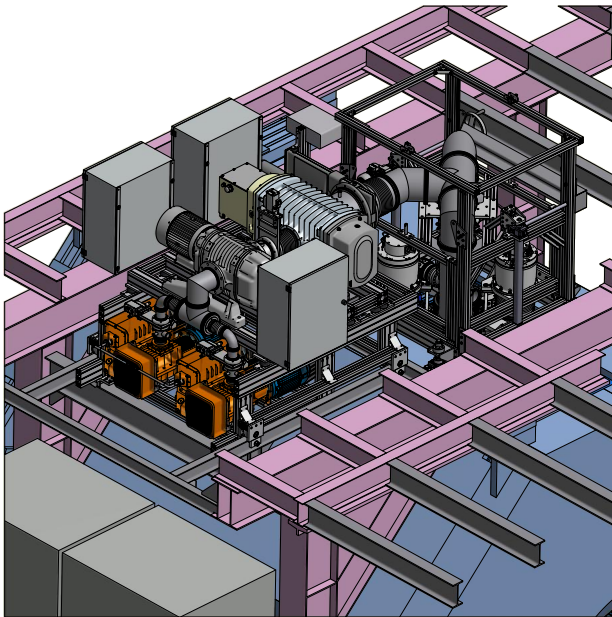
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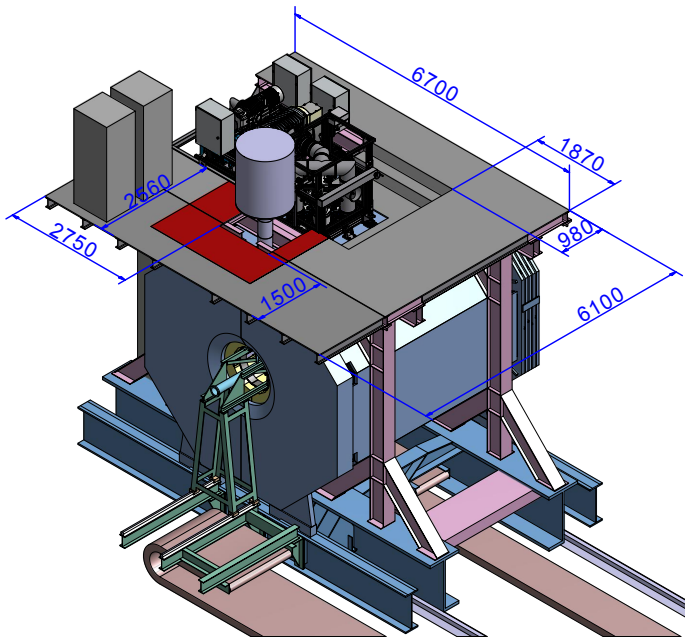
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Support of the Cluster-Jet Target Station



Platform — current proposal












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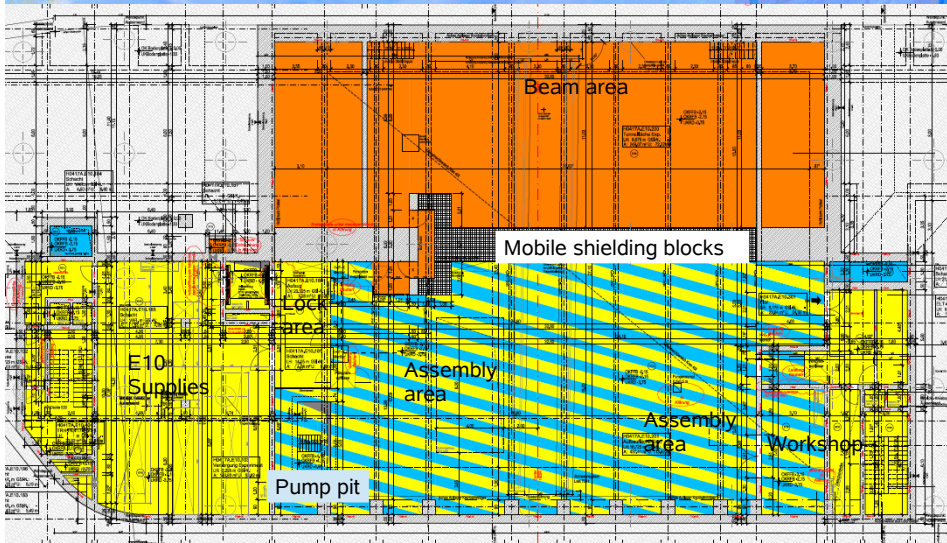
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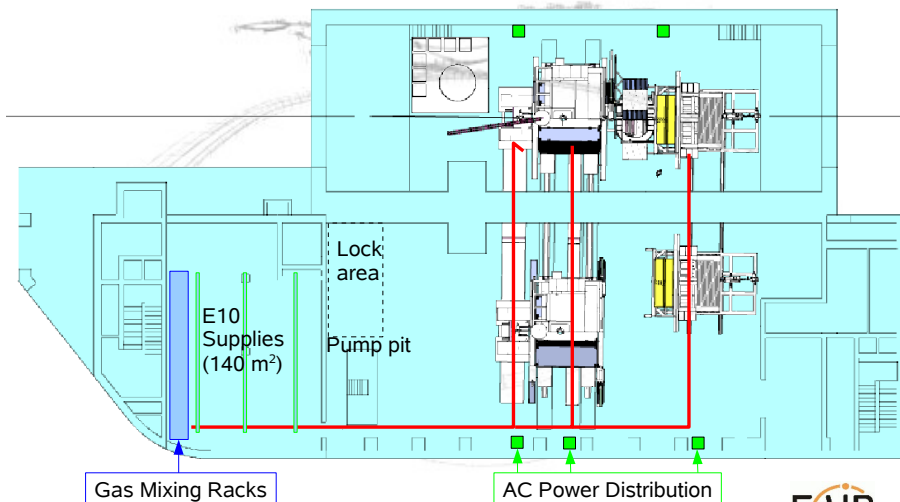
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Radiation Zones



Power and Cable Routing



Gas Mixing Racks

AC Power Distribution

Assembly Areas in PANDA Hall

