



# central Trackers assembly sequence and Interface with cross-pipe - draft proposal -







Preliminary work in a clean Dedicated area

Auxiliary Support Structure + Dummy Rails Aligned (Survey Service Assistance)

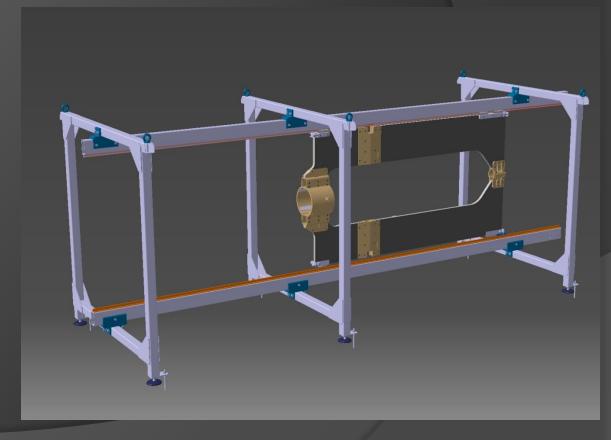








- Auxiliary Support Structure + Dummy Rails Aligned
- Central Frame on Rails

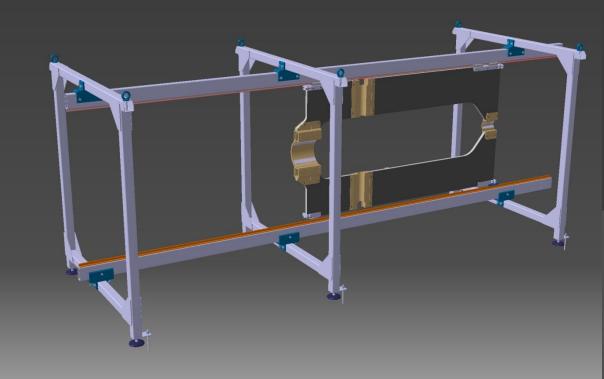








- Auxiliary Support Structure + Dummy Rails Aligned
- Clamps Open

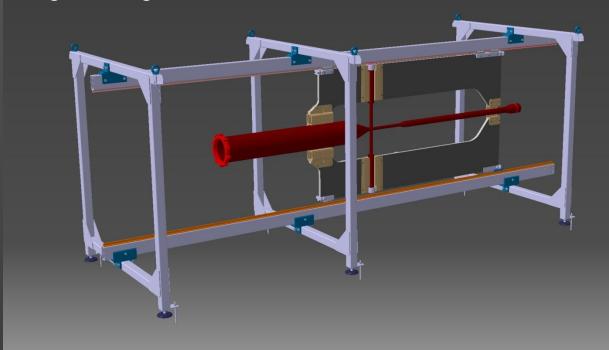








- Auxiliary Support Structure + Dummy Rails Aligned
- Central Frame on Rails
- Cross Pipe Mounting and Alignments



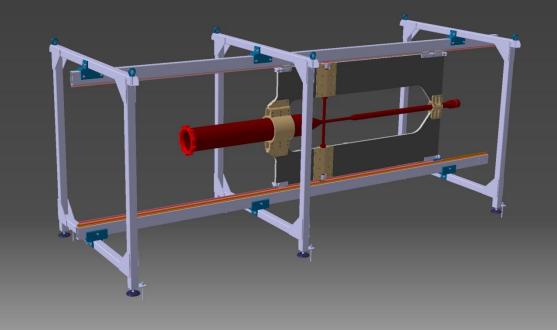






- Auxiliary Support Structure + Dummy Rails Aligned

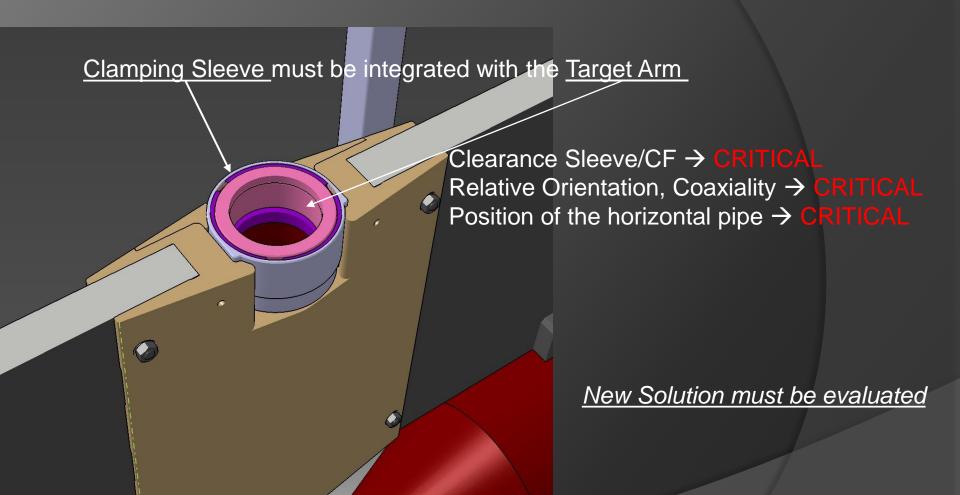
- Cross Pipe Mounting and Alignments
- Clamps Close







Cross Pipe – CF Interfaces

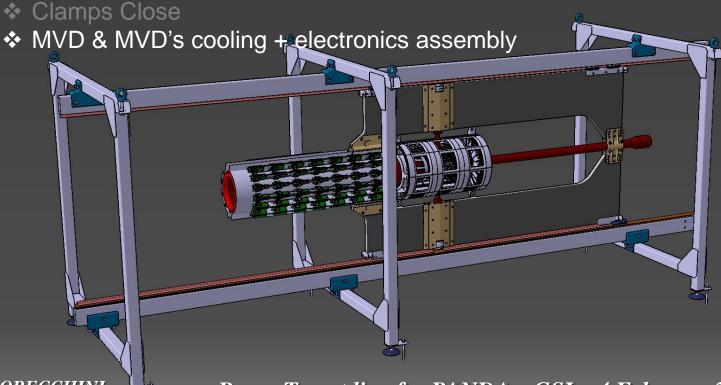








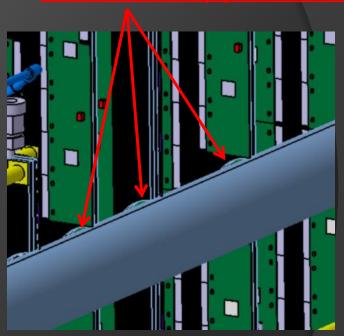
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- Manufacturing tolerances
- > Assembly tolerances





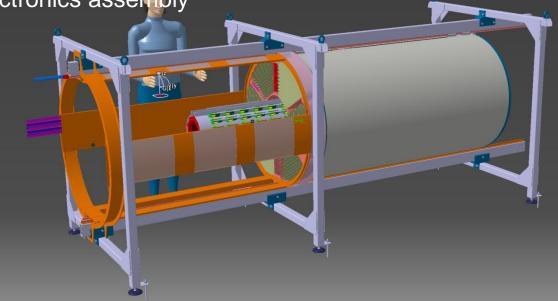




#### Preliminary work in a clean Dedicated area

- Auxiliary Support Structure + Dummy Rails Aligned (Survey Service Assistance)
- Central Frame on Rails
- Clamps Open
- Cross Pipe Mounting and Alignments
- Clamps Close
- MVD & MVD's cooling + electronics assembly

STT & STT's electronics assembly









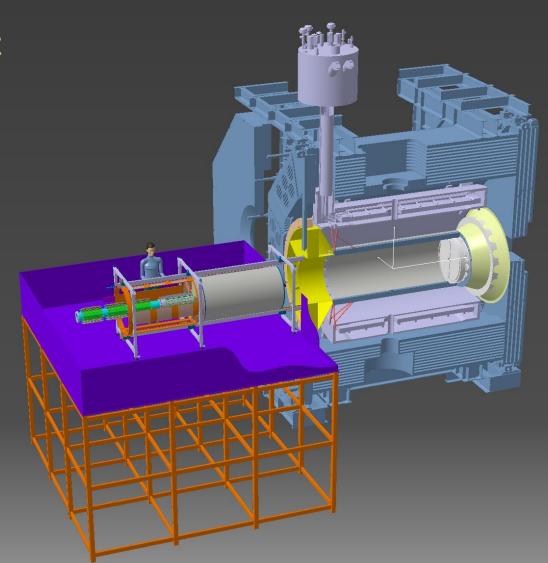
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- Central Frame on Rails
- Clamps Open
- Cross Pipe Mounting and Alignments
- Clamps Close
- MVD & MVD's cooling + electronics assembly
- STT & STT's electronics assembly
- Beam Pipe Upstream Sector (DC-DC Converters)







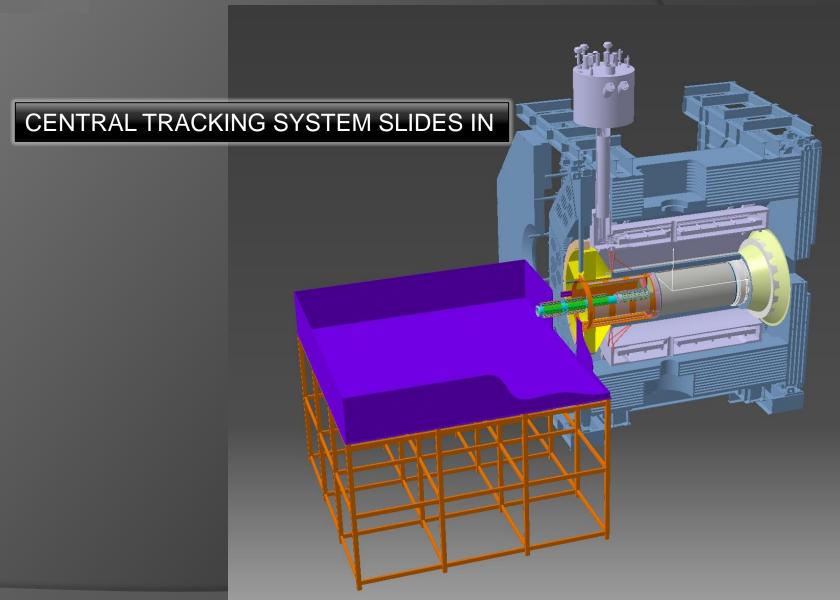
# READY TO MOVE TO THE SERVICE PLATFORM



Beam-Target line for PANDA – GSI – 4 February 2013







Beam-Target line for PANDA – GSI – 4 February 2013





# SUMMARY

- ✓ The clamping sleeves must be integrated with the Target Arms
  - Tolerances (geometry, manufacturing & assembly)
- ✓ MVD assembly Possible problem with Beam Arm
  - Tolerances (geometry, manufacturing & assembly)
- ✓ Beam Pipe Upstream Sector act as DC-DC Converters holder
- ✓ Beam Pipe Upstream Sector (DC-DC Converters) must be suspended during assembly and handling
  - Possible problem with End-Cap EMC





