



PXD-Halfshell Transport to KEK

PXD - Mechanical Overview

Transport DESY – MPI

Transport MPI – KEK

Half Shell Mounting on Beam Pipe

Next Steps



Ladder Mounting: Overview





C. Kiesling, MPI Belle Group Meeting, Sept. 20, 2018



Fully Assembled SCB Half Shell, Phase 3





SCB Half Shell for Phase 3, same assembly tested in Phase 2



Ladder Mounting: Overview for Phase 3



Principle: Mount ladders always from top; first L1, then L2



1st and last ladder are "easy", 2 and 3 "tricky"







+X

Ladder 2(3) must be guided "down" and "left" in a well coordinated way (tactile feedback mandatory)

- Need a rotation mechanism for SCB half shell
- Need mounting jig (protection) for each layer

-X





Test Installation of Ladder in Mounting Jig













Fix SCB-HS to LMRD







SCB-HS fixed to LMRD







Ladder 1 Mounted: Closeup FWD







LMRD Rotated to Receive Ladder 2







Ladder2 Rotated, in Position (BWD)







Ladder2 Ready to be Fixed (BWD)







Ladder2 Fixed (BWD)













Transport of Half Shells



Transport Box for the Half Shells

Half Shell will be brought to DESY for testing (see talk by Carsten Niebuhr at Oct 2017 B2GM)

After DESY test half shell goes to KEK

Y X



Test of Half Shells at DESY





Transport to DESY by car

Installation in Cleanroom

CO2 Cooling ("MARCO")

Power supplies + DAQ system





























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Half Shell Mounting in KEK Clean Room



Precision gauge to test half shell mounting points Counter part ("beampipe support" at MPI to test half shell precision


















































PXD Ready for Commissioning





VXD Assembly -> 1st week of October









Installation into Belle last week of November / 1st week of December











Patch Panel Cable Cage (BWD)











[FWD PPCC more difficult, design ready, in production at MPI workshop]

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Patch Panel Cable Cage (FWD)











Assembly will be done still this week, both PPcc will be taken to KEK next week and installed on the PXD

Final DAQ tests then with the PPccs installed

Next: marriage with SVD in the week Oct. 2-6

