New Furniture for the DESY Accelerator Control Room.



Michael Bieler New Furniture for the DESY Accelerator Control Room WAO 2010, Daejeon, April 14 2010





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DESY



DESY's Accelerators



- > 6 different accelerators
- > 1 control room



The Accelerator Control Room

All machines are operated from one room by one shift crew. Large room: $11m \times 38m = 418m^2$





The old Consoles

The old consoles were build in the 1970ties in 19" technology:

- big screens, 19" wide
- > 19" racks between the screens







The old Consoles, upgraded

The old consoles were upgraded in 2005:

- flat screens
- > 2 screens above each other
- still 19" racks below the screens





The End of the old Consoles

The old consoles were replaced in 2009:

- > designed in 1973
- > no more spare parts
- screen position and size inflexible





Design criteria:

- > 19" racks below some, but not all screens
- > flexible screen positions
- > flexible screen sizes
- > airflow from below, outlet only at the back side
- > easy access to the computers below the table
- > outlets for USB, 230 V AC, ethernet etc. on the table
- > more room between the consoles



19" racks below some, but not all screens





flexible screen positions flexible screen sizes



airflow from below, outlet only at the back side





easy access to the computers below the table







outlets for USB, 230 V AC, ethernet etc. on the table





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additional hardware can be placed between the screens





more room between the consoles





The new furniture for the DESY control room was developed by a group of operators (Bernd Kuehl, Benjamin Polzin, Torsten Schulz, Olaf Goldbek, Freddy Wierzchole and Hans-Otto Wiese),

designed and build by friendly people from "Carstens Holz und Design"

and installed with a lot of contributions from the DESY groups MCS,

MDI and ZBAU.

Thanks a lot to all of them!





Appendix: Natural Light ?

German law asks for natural light in every workspace.

The control room does not have any walls to the outside:





Appendix: Natural Light ?

Indirect light from the experimental hall:





Appendix: Natural Light ?

Light through the ceiling: Structural engineering does not allow big holes in the ceiling.





A metallized tube reflects daylight into the room.

