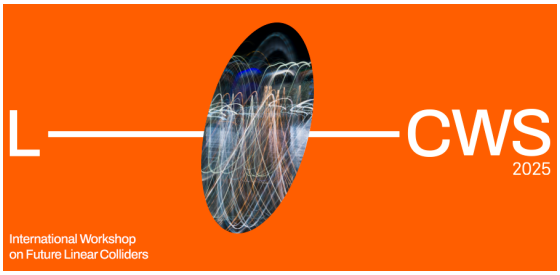

Contribution ID: **145** Type: **Talk**

New developements and challenges for the control system at the Petra beamlines

The Petra accelerator at DESY, in user operation for photon science experiments since 2009, is one of the world-best synchrotron radiation sources.
Its experiment Control System is based on Tango, for hardware access and transport layer, and Sardana for the user interfaces, including scripting, and command line and graphical interfaces.
During these years of operation the control system has been developed trying to satisfy the emerging requirements and new challenges.
The upcoming Petra IV project, a next-generation synchrotron radiation source with unprecedented coherence properties, also implies an upgrade of the experiment control, proven to have critical importance in achiving the high quality experimental conditions at the beamlines.
The last developments and current ideas for the control of the experiments at Petra will be reviewed at this talk.

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Session Classification: Damping rings, Beam dynamics, Beam delivery systems

Track Classification: Accelerator: Damping rings, Beam dynamics, Beam delivery systems