

COLLOQUIUM

Robotic Solutions for CERN Accelerators Harsh Environments

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Nowadays, intelligent robotic systems are becoming essential for industry and harsh environments, such as the CERN accelerator complex. Aiming to increase safety and machine availability, robots can help perform repetitive and dangerous tasks which humans either prefer to avoid or are unable to do because of hazards, size constraints or the extreme environments in which they take place, such as outer space or radioactive experimental areas. In this presentation, the current status the robotic systems applied at CERN is described. Several robotics solutions have been applied in the past years at CERN, as well as custom made robotic devices. New ideas and solution could come in the close future to increase safety of CERN personnel decreasing radiation dose taken. Current and future research and development in robotics are described, as well as the results from the commissioning of various novel robotic controls.