

Johannes Lips, BSc – Université de Lorraine (FR)

2-D Robotic Control of a Plasma Probe

A hands-on engineering experience at the TJ-K stellarator

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Title: 2-D Robotic Control of a Plasma Probe

Speaker: Johannes Lips, BSc – Université de Lorraine (FR)

When: 2019-11-14 20:00:00

Abstract: This talk will discuss the upgrade of the control system of a 2-D probe at TJ-K (University of Stuttgart), which the speaker was responsible for as a first-year master student. Mounted on a manipulator, the probe can perform single and swept measurements. The control system can locate the tip of the probe at any position within a 2-D section of the stellarator. Focus will be on practical issues such as hardware-software compatibility, error propagation in diagnostic devices and different bus-systems in desktop computers. An introduction to LabView is provided as the audience is walked through the upgrading process.

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