

The banner features a portrait of Johannes Lips on the left. The background is a stylized representation of a tokamak blanket with vertical lines and a pink-to-purple gradient. A speech bubble from 'Universität Stuttgart' points to the title. Logos for 'Fusion EP' and 'FuseNet' are in the top right. A 'Zoom meeting' box with ID 82145836365 and password DA2C3917 is at the bottom left. A '20:00 PRAGUE' time slot and 'AUG 27' date are at the bottom right.

powered by  
FUSION EP FuseNet

Universität Stuttgart

Johannes Lips, MSc – Universität Stuttgart (GER)  
**A Plasma Positioning Antenna for Tokamaks with Blankets**

Zoom meeting 82145836365 DA2C3917

20:00 PRAGUE AUG 27

[Click for the last updated version](#) | [Click to Add to Calender](#)

[Click to Join via ZOOM](#) Password: DA2C3917

**Title:** A Plasma Positioning Antenna for Tokamaks with Blankets

**Speaker:** Johannes Lips, MSc - University of Stuttgart (GER)

**When:** 2020-08-27 20:00:00

**Abstract:** Johannes will be presenting his master thesis research. In this research he looked into Plasma Positioning Reflectometry (PPR) as alternative for magnetic diagnostics for plasma positioning control in tokamaks. Next generation tokamaks such as ITER and DEMO will be equipped with blankets to deal with high heat loads, breed tritium fuel and transfer the fusion energy to a coolant so that a turbine can be driven with it. The problems these blankets pose for PPR are attacked in this research. A 2D ray tracing code R2P2 is introduced to analyze the effect of the blankets on the diagnostic and from these results an optimal antenna is constructed for PPR in ITER. A prototype of the antenna is tested.

**Email:** [fusionep-talks@egyplasma.com](mailto:fusionep-talks@egyplasma.com)

**Website:** [fusionep-talks.egyplasma.com](http://fusionep-talks.egyplasma.com)