2024 年度第 2 回可知化センシングユニットセミナー
2024 年 6 月 13 日　13:30-14:30　研究一期棟 601 会議室
The 2nd S and I unit seminar
13:30-14:30 June 13th 2024 at 601 meeting room, the 1st research building

Title: Development of diagnostics and plans for burning plasma experiments on HL-3 tokamak

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Abstract:

HL-3 is a newly constructed tokamak in SWIP and the first plasma was obtained in the year 2020. Focused on the performance of HL-3, around 40 sets of diagnostic systems were developed. This presentation addresses the progress of diagnostic systems and the preparation for the deuterium-tritium experiments. The report consists of four parts, the development of diagnostics on HL-3, overview of deuterium-tritium diagnostics, design progress of the deuterium-tritium diagnostic systems as well as the challenges and related issues. The first part introduces the status of diagnostics measuring the plasma densities, temperatures and plasma radiations, etc. The second part depicts the status and the requirements of the diagnostics for the deuterium-tritium plasma; the third part describes the progress of the diagnostics for the deuterium-tritium, and the last part displays the challenge issues for the diagnostics of the burning plasma.

Host;　Kenji Tanaka S and I unit (tanaka.kenji@nifs.ac.jp, EX2226)

中国西南物理研究所の Deliang Yu 教授が NIFS を訪問され６月１３日にセミナーを開催されます。Deliang Yu 教授は西南物理研究所の HL3 トカマクの計測グループのリーダーで、現在 HL3 トカマクにおいて D-T 実験の準備を進めていらっしゃいます。講演では。HL3 トカマクの計測(~40 計測)の現状、DT 実験へ向けての計測の準備状況、および、今後の燃焼プラズマの計測の展望についてご講演いただきます。よろしくご参集ください。

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