

4th IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis

Monday, November 29, 2021

Monday 29 Nov: Tutorial session (12:10 PM - 3:30 PM)

time	[id] title	presenter
12:10	P00 Introduction to IMAS	PINCHES, S.
1:10	P01 Demonstration of the FAIR4Fusion Data Discovery and Access Portal	DE WITT, Shaun
1:30	P09 Introduction to Scientific Machine Learning and Deep Learning	CHURCHILL, M.
2:30	P00 Introduction to Bayesian methods and their use in fusion data analysis	VERDOOLAEGE, G.

Monday 29 Nov: Data analysis preparation for ITER and Software Tools for ITER diagnostics (Chaired by S. Pinches) (3:30 PM - 5:30 PM)

time	[id] title	presenter
3:30	P13 Mori-Zwanzig projection operator method as a statistical correlation analysis of time-series data	Dr MAEYAMA, Shinya
3:45	P14 CLASSIFYING AND LOCATING ALFVÉN EIGENMODES IN TOKAMAK PLASMAS BASED ON A HIGH RESOLUTION ECE DIAGNOSTIC AT DIII-D USING DEEP NEURAL NETWORKS AND IMAGE PROCESSING TECHNIQUES	Mr JALALVAND, Azarakhsh
4:00	P18 CATALOGUING OF ITER SIMULATIONS USING SIMDB	HOLLOCOMBE, Jonathan
4:30	P19 tofu: an open-source python library for synthetic diagnostics, data analysis and inversions for fusion	VEZINET, Didier
4:45	P12 Bringing Anomalous Transport Models to the TRANSP Code as IMAS Components	PANKIN, Alexei
5:00	P10 Update of the architecture for the implementation of the fusion FAIR data framework.	PLOCIENNIK, Marcin
5:10	P13 A Preliminary Study on Experimental Data Analysis System and Breakdown Prediction Based on Neural Networks for EAST-NBI	WANG, Jinxin