



Minutes TJ-II access committee

November 7th 2019

Members present by video-conference: Dolores Calzada (Córdoba University), Carlos Silva (IPFN, Lisbon), Monica Spolaore (Consorzio RFX, Padova), Kieran McCarthy (CIEMAT)

Members present at CIEMAT: Teresa Estrada (CIEMAT), Carlos Hidalgo (CIEMAT).

Carlos Hidalgo welcomed all participants and explained that the TJ-II stellarator facility has offered up to 30% of its experimental time as competitive external access for the 2019 Autumn [18 sessions] & 2020 Winter [27 sessions] experimental campaigns [approximately 14 out of 45 experimental sessions].

The received proposals cover a wide range of relevant research goals that are fully in line with the priorities of the Eurofusion S1 (stellarator) work programme. External proposals are led by collaborators from Europe, Russia, Ukraine, Japan and China [see table 1]. The total number of requested sessions is about 17 sessions [including 3 sessions for IAEA joint experiments]. Concerning priorities, it was agreed that the sessions awarded to external collaborators will have first priority in case of having a reduction in the number of TJ-II operational days.

It was noted that some proposals are not fully developed yet [Benkada, Aix-Marseille University University / [TJ-II:Turbulence driven magnetic islands](#)] and therefore are not included in the present planning.

Carlos Silva asked about the difference in time slots for external proposals and IAEA joint experiments. Kieran McCarthy explained that outside proposers usually request access during a time-window that TJ-II / Ciemat then honours whereas IAEA joint experiments must be located in a time window determined by IAEA boundary conditions [a week at the beginning April 2020]. Monica Spolaore asked about the possibility of optimizing the available experimental time by sharing experimental sessions with different scientific goals. Carlos Hidalgo replied that we highlight the leading scientific proposal but other (non-perturbative) scientific goals will be accommodated in the programme. Dolores Calzada argued that TJ-II has a great potential to involve Spanish Universities in the European nuclear fusion research programme.

Proposals were briefly discussed and approved by the committee.



External proposal for the TJ-II 2019 Autumn & 2020 Winter campaigns	Principal Investigator	Funding source	Sessions awarded
TJ-II: 2D mapping of plasma potential and density and their fluctuations in ECRH plasmas (Low energy scan)	A Melnikov (Kurchatov Institute, Moscow, Russia) and O. Kozachek (Kharkov Institute of Technology, Ukraina)	Eurofusion WPS1	3
TJ-II: Physics of transport decoupling, an approach to measure the phase relation between density and temperature fluctuations	I. Nedzelskiy [IST, Portugal] And M. Koepke (University of West Virginia)	Eurofusion WPS1 + DOE	2
TJ-II: Why fast reaction of plasma fluctuations to ECRH ?	M. A. Ochando (Ciemat) and Dragan Poljak (Croatian team)	Eurofusion WPS1	2
TJ-II: 2D mapping of plasma potential and density and their fluctuations in ECRH plasmas (High energy scan)	A Melnikov (Kurchatov Institute, Moscow, Russia) and O. Kozachek (Kharkov Institute of Technology, Ukraina)	Eurofusion WPS1	2
TJ-II: Feed back control of Zonal Flows and turbulence in TJ-II	H. Takahashi [NIFS, Japan], Sh. Ohshima [Kyoto University], U. Losada [CIEMAT]	Eurofusion WPS1, NIFS	2
TJ-II: Impurity injection with TESPEL in TJ-II stellarator	N. Tamura, National [NIFS, Japan]	Eurofusion WPS1, NIFS	2



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IAEA joint experiments	Kurchatov Institute, Russia [Melnikov], University of Sofia, Bulgaria [Popov], American University of Beirut [Antar], Prince of Songkla University, Thailand [Chatthong]		3
		TOTAL	17

Table 1.