

Welcome to the

Joint WP TE and WP PWIE meeting on Plasma Wall Interactions in full W devices

Sept 17-19, Aix-en-Provence



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Aim of the meeting

- discuss future R&D within EUROfusion in the area of PWI with W, in support of the ITER re-baselining
- focus on synergies between fusion devices (TE) and linear devices / HHF facilities (PWIE)
 - align activities in the two WPs in view of the new baseline and (later) required resources and coordination
- Focus on 4 topics:
 - boronisation, tungsten erosion and migration, tungsten plasma facing components damage and tungsten dust
 - from the experimental and modelling point of view



4 sessions on the agenda

09:00	Linear devices capabilities for W sources studies	Thomas Morgan
		09:00 - 09:20
	WEST capabilities for W sources studies, incl. enhancements	Christophe Guillemaut
		09:20 - 09:40
	Modelling capabilities for W sources studies	Andreas Kirschner
		09:40 - 10:00
10:00	In and out analysis capabilities for W sources studies	Antti Hakola
		10:00 - 10:20
	Break	
		10:20 - 10:35
	2024-2025 summary and plans for W sources studies within WP TE	Yannick
		10:35 - 11:00
11:00	2024-2025 summary and plans for W sources studies within WP PWIE	Sebastijan Brezinsek
		11:00 - 11:20
	General discussion on W sources	
		11:20 - 12:10
12:00	Lunch	
		12:10 - 14:00
14:00	WEST capabilities for W damage studies	Marianne Richou
		14:00 - 14:20
	Linear devices / HHF capabilities for W damage studies	Marius Wirtz
		14:20 - 14:40
	Annealing strategies of tungsten plasma-facing components	Prof. Wolfgang Pantleon
		14:40 - 15:00
15:00	AUG capabilities for W damage studies (TE current knowledge and future plans for W damage studies in 2024-2025)	Karl Krieger et al.
		15:00 - 15:30
	Break	
		15:30 - 16:00
16:00	Current knowledge on W damage within PWIE and future plans for studies in 2024-2025	Jan Willem Coenen
		16:00 - 16:20
	General discussion on W damage	
		16:20 - 17:00
17:00	General discussion	
		17:00 - 18:00

W source

Chair: S. Brezinsek

W damage

Chair: E. Tsitrone

09:00	W dust studies at IPP: on collected AUG dust and produced by arcing	Martin Balden
		09:00 - 09:20
	WEST capabilities for W dust studies	Dr Mathilde Diez
		09:20 - 09:40
	Linear / HHF devices capabilities for W dust studies	Svetlana Ratynskaia
		09:40 - 10:00
10:00	Dust formation mechanisms in connection with tungsten evaporation: lessons learned from laboratory experiments and W dust ...	Gheorghe Dinulescu
		10:00 - 10:20
	Break	
		10:20 - 10:40
	Post mortem analysis capabilities for W dust studies	Yannick
		10:40 - 11:00
11:00	Dust production in JET and efforts in addressing dust production in B-W environment	Yevhen Zayachuk
		11:00 - 11:20
	Summary, WP TE and PWIE plans for W dust studies in 2024-2025	Antti Hakola
		11:20 - 11:35
	General discussion on W dust	
		11:35 - 11:55
12:00	Wrap-up and meeting adjourn	David Douai
		11:55 - 12:15

W dust

Chair: A. Hakola

Coffee break in each session

14:00	Welcome	David Douai
		14:00 - 14:10
	R&D issues linked to full W walls in ITER and beyond	Dr Tom Wauters
		14:10 - 14:40
	ASDEX-Upgraded AUG capabilities for boronisation studies	Alberto Gallo
		14:40 - 15:00
15:00	Linear devices capabilities for boronisation studies	Andrei Goriaev
		15:00 - 15:20
	Modelling capabilities for boronisation studies	Olga Pavlycheva
		15:20 - 15:40
	Break	
		15:40 - 16:00
16:00	Post mortem analysis capabilities and reference layers for boronisation studies	Antti Hakola
		16:00 - 16:20
	2024-2025 summary and plans for boronisation studies within WP TE	Emmanuelle Tsitrone
		16:20 - 16:40
	2024-2025 summary and plans for boronisation studies within WP PWIE	Sebastijan Brezinsek
		16:40 - 17:00
17:00	General discussion	
		17:00 - 18:00

Boronisation

Chair: D. Douai



Practical aspects

- Wifi:
 - Need to activate your user account on ENSAM
 - see mail from no-reply@ensam.eu

- Dinner organised on Wednesday
 - Meet at 19:00 at the restaurant [Les Artistes](#)

