30th IAEA Fusion Energy Conference (IAEA FEC 2025)

Contribution ID: 3060

Type: Regular Poster

Experimental observations of magnetohydrodynamic instabilities in HL-3 low-current high-βN plasmas

Thursday 16 October 2025 18:09 (1 minute)

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Session Classification: Posters 4

Track Classification: EX - Magnetic Fusion Experiments including Validation: EX-W - Waves