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PD/1-2: Initial Snowflake Divertor Physics Studies on DIII-D

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Recent DIII-D results using the snowflake divertor configuration [1] show significantly reduced (a) inter-ELM peak heat flux (Fig. 1) and (b) energy loss per edge localized mode (ELM) without pedestal pressure reduction (Fig. 2). This supports the snowflake configuration as a promising technique for divertor heat load mitigation in present and future high-power magnetic confinement devices.

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