

Assessment of Divertor Heat Load with and without External Magnetic Perturbation



L-Mode: The full 2D heat flux pattern has been measured using a rigid rotation of the external magnetic perturbation

- The toroidally averaged heat flux profile is identical to the axisymmetric case
- No beneficial spreading of power observed

H-Mode: The reduction of the ELM deposited peak energy density follows scaling of natural ELMs which is proportional to the pedestal pressure

- Assessment of ELM mitigation needs to correct for the loss in pedestal pressure to distinguish true mitigation due to ELM size reduction from such due to a pressure reduction (due to pump out)

