

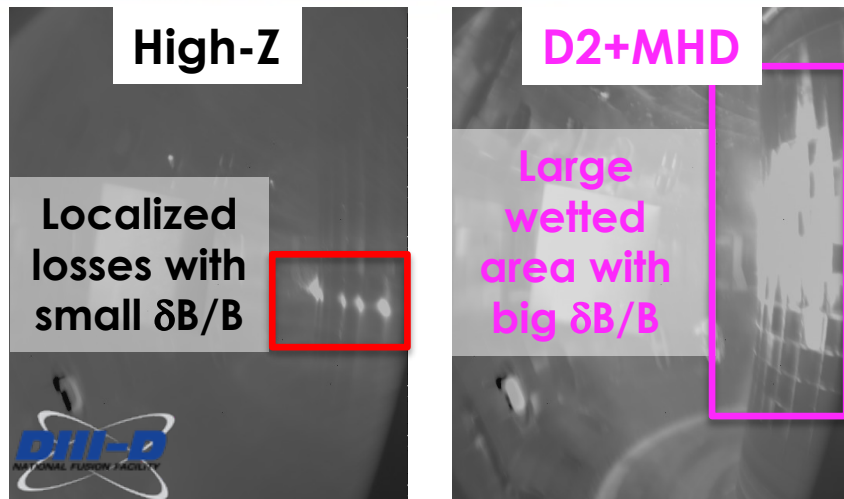
New Approach to Runaway Electron Mitigation Demonstrates Safe Termination of MA-Level RE Beams

Approach involves

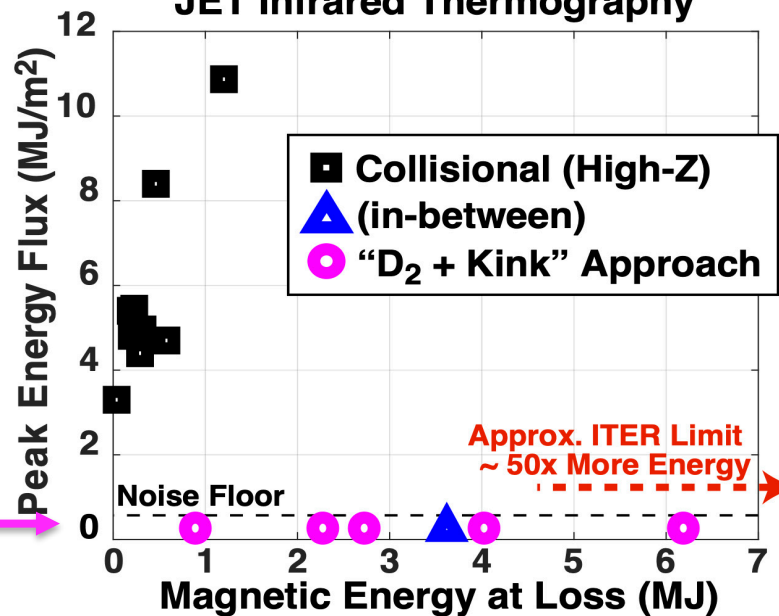
1. Deuterium Injection
2. Excite Current-Driven MHD (big $\delta B/B$)
3. "Disruption of RE beam" \rightarrow sub-ms loss

Safe RE Termination Achieved By:

- Low-Z: recombines background plasma \rightarrow accelerates Alfvénic MHD
- Large $\delta B/B$: REs lost to wall over large wetted area \rightarrow disperse kinetic energy
- Current converts back into Ohmic bulk \rightarrow Magnetic energy dissipates benignly



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New Approach Avoids First Wall Heating Despite High RE Energy