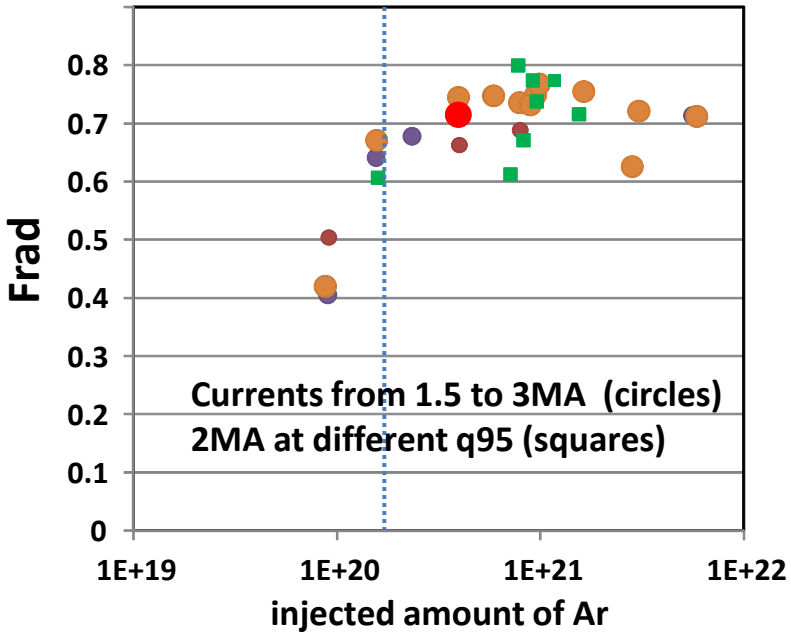
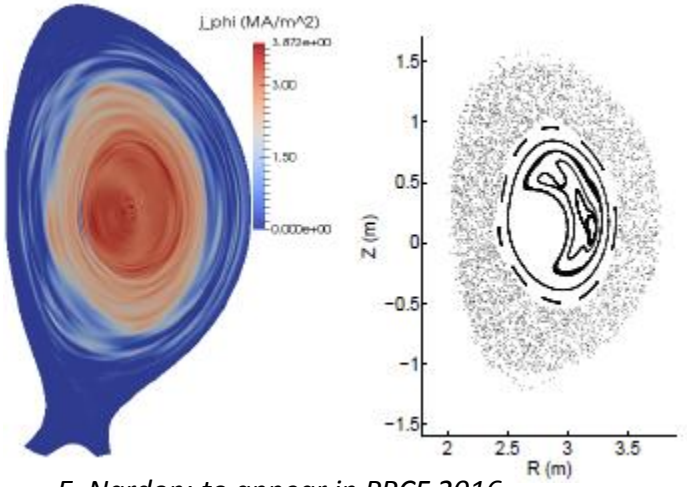
# Disruption study advances in the JET metallic wall

**JET-ILW disruption mitigation system mimics the ITER set-up with 3 valves in 3 different toroidal locations.**

**The radiation fraction at current quench does not depend on plasma current nor safety factor when varying the amount of radiative gas (Ar) in the DMV.**
**More than 1-2.$10^{20}$ of Ar is needed for an effective disruption mitigation.**




**Thermal quench simulation with JOREK: the MGI causes the formation of a 2/1 island and the growth of several magnetic island chains that leads to a formation of a partial stochastization of the plasma and fast loss of the plasma thermal energy.**

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