

I-mode regime has been accessed and studied over an expanded operating space on Alcator C-Mod

- **I-mode regime has many attractive features for fusion:**
 - T_e, T_i pedestals give **high energy confinement, little power degradation.**
 - L-mode particle confinement gives **low, steady impurity radiation, even with high Z PFCs.**
 - Stationary and **ELM-free.**
- **Regime now extended to full range of field and current, up to 8 T, 1.7 MA.**
 - Confirms weak L-I threshold dependence on B, and wide power range at high B.
- **I-mode has been maintained in near DN.**
 - $dR_{sep} \sim 1$ mm, shares power flux.
- **Many new core, pedestal physics results.**
- **I-mode is promising for ITER and high field DEMO. Further research is needed on other tokamaks to confirm extrapolations.**

