G. Papp et al.: Runaway electron generation and mitigation on the European medium sized tokamaks ASDEX Upgrade and TCV

- Reliable runaway electron (RE) scenarios developed on both AUG and TCV
  - Low density (0.25-3.5 x 10^{19} \text{ m}^{-3}), circular plasmas
  - Pre-disruption suprathermal seed survives the quench
  - Confident RE beam position and current control
  - Full conversion of Ohmic into RE current on TCV
  - RE generation in TCV quiescent plasmas if E/E_c > 15 (a)

- Secondary injection of neon or argon leads to runaway dissipation / suppression (b)
  - HFS and LFS injections are practically identical, ex-vessel 2^{nd} MGI requires ~2x more gas than in-vessel

- Resonant magnetic perturbation on AUG significantly decreases RE beam current (c)

- Elongated (κ = 1.4) TCV plasmas lead to no post-disruptive RE beam generation