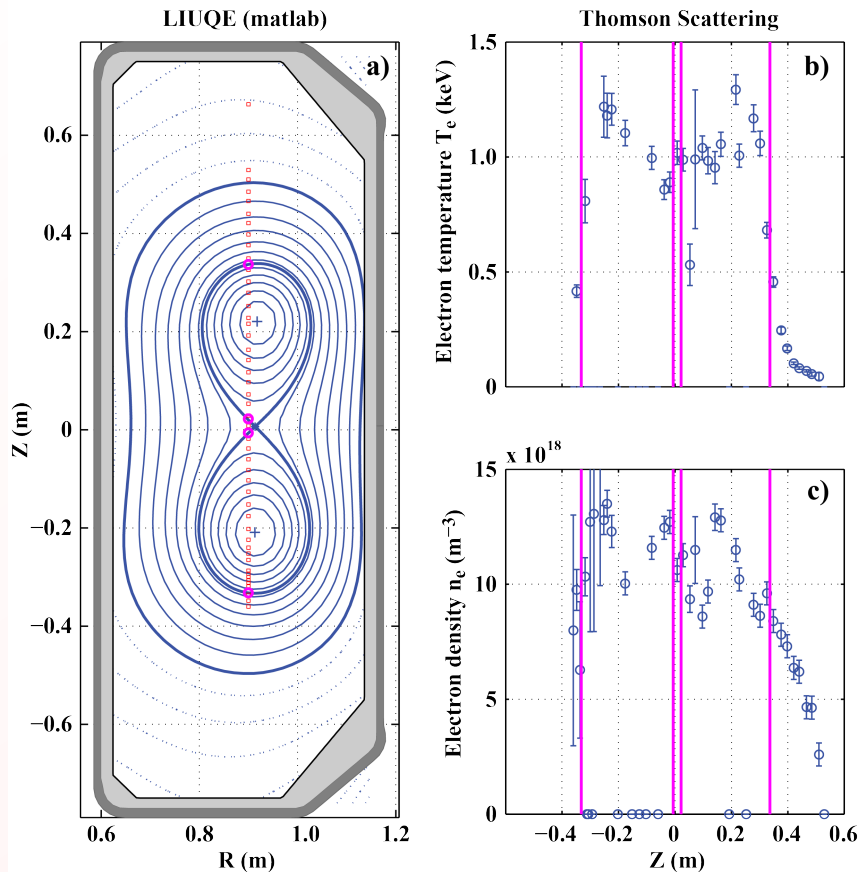


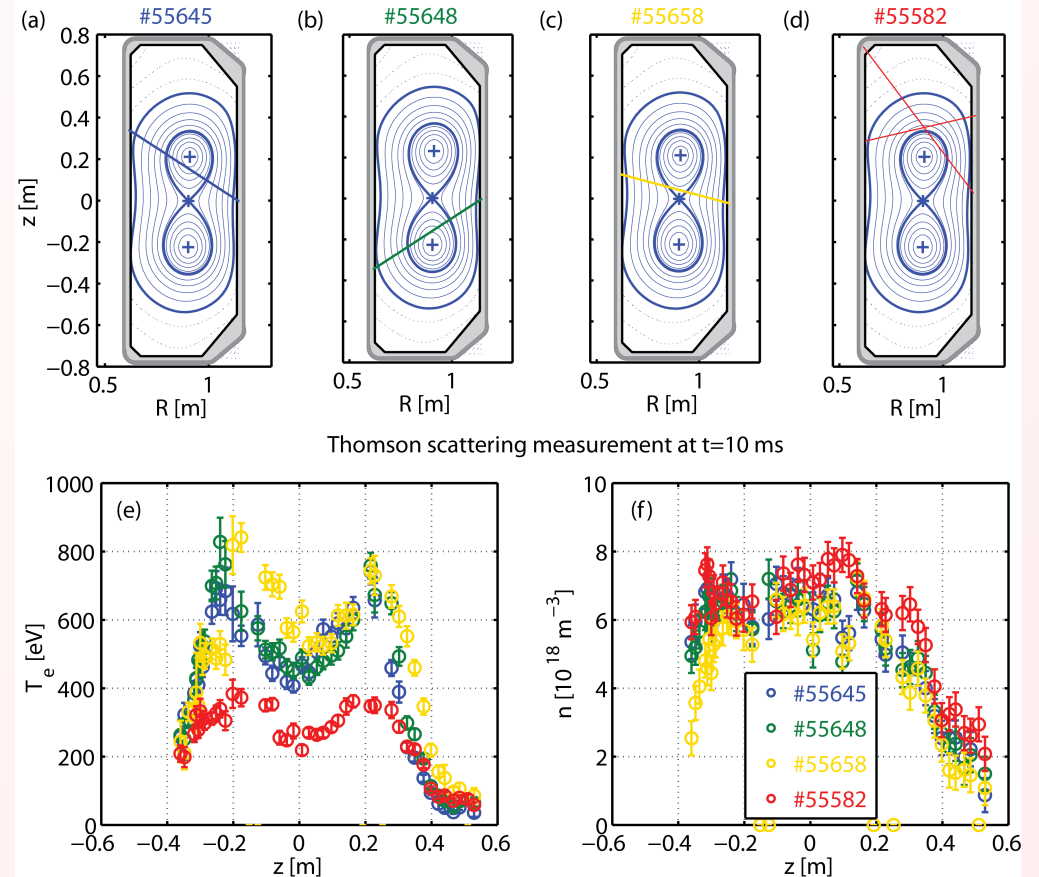
Doublet plasma breakdown on TCV EX/P1-6

TCV 55331 t=0.017s - Ip=-143kA



ECH-assisted Doublet showing **two hot lobes** and a cool mantle (see RHS with Thomson Ne and Te profiles with vertical lines showing reconstructed lobe positions)

LIUQE equilibrium at t=10 ms



Thomson Profiles for a range of **ECH heating locations**. With heating in one or the other lobe, the profiles are remarkably similar. With a cold mantle, this could be **explained by a barrier** just outside the LCFS