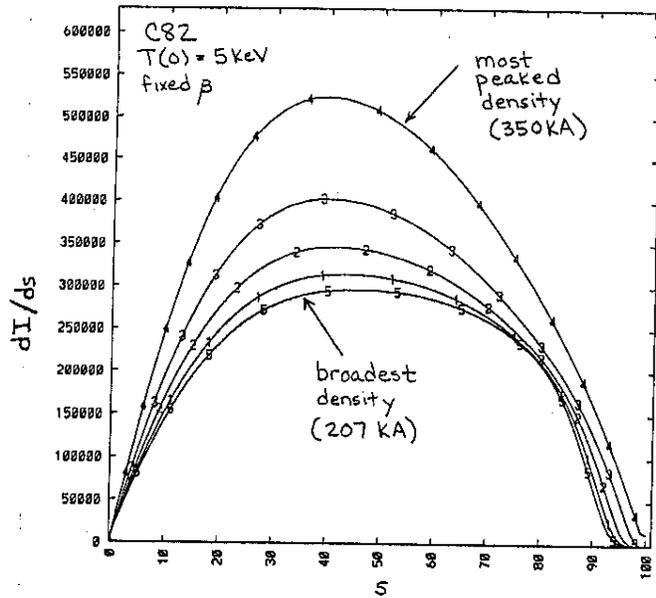
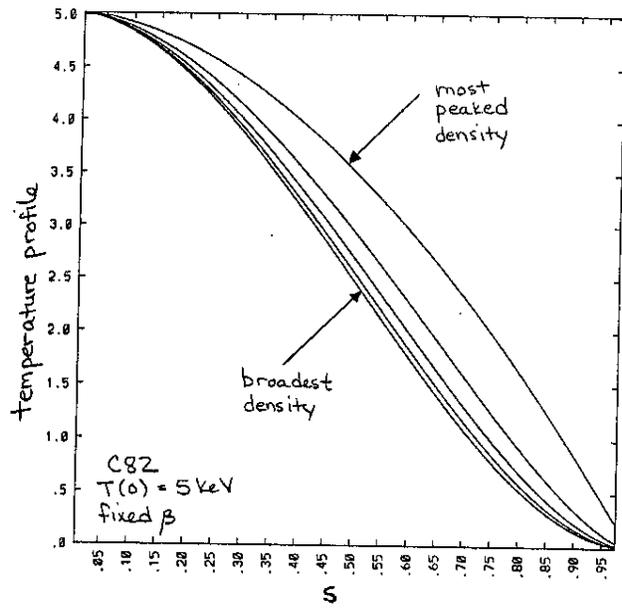
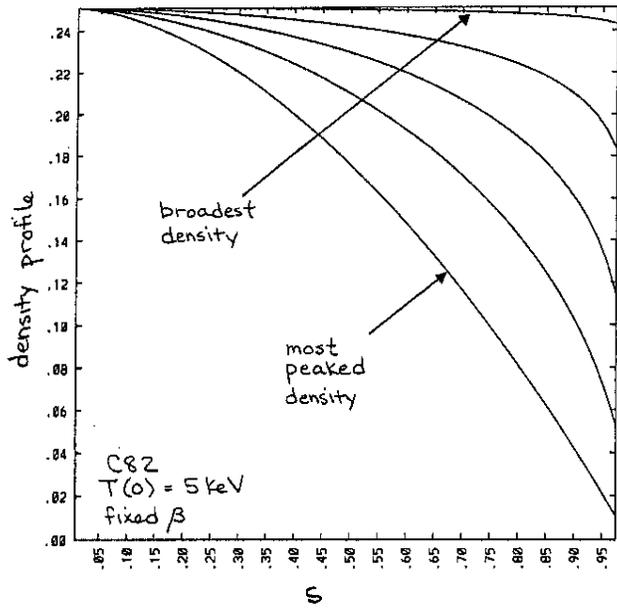
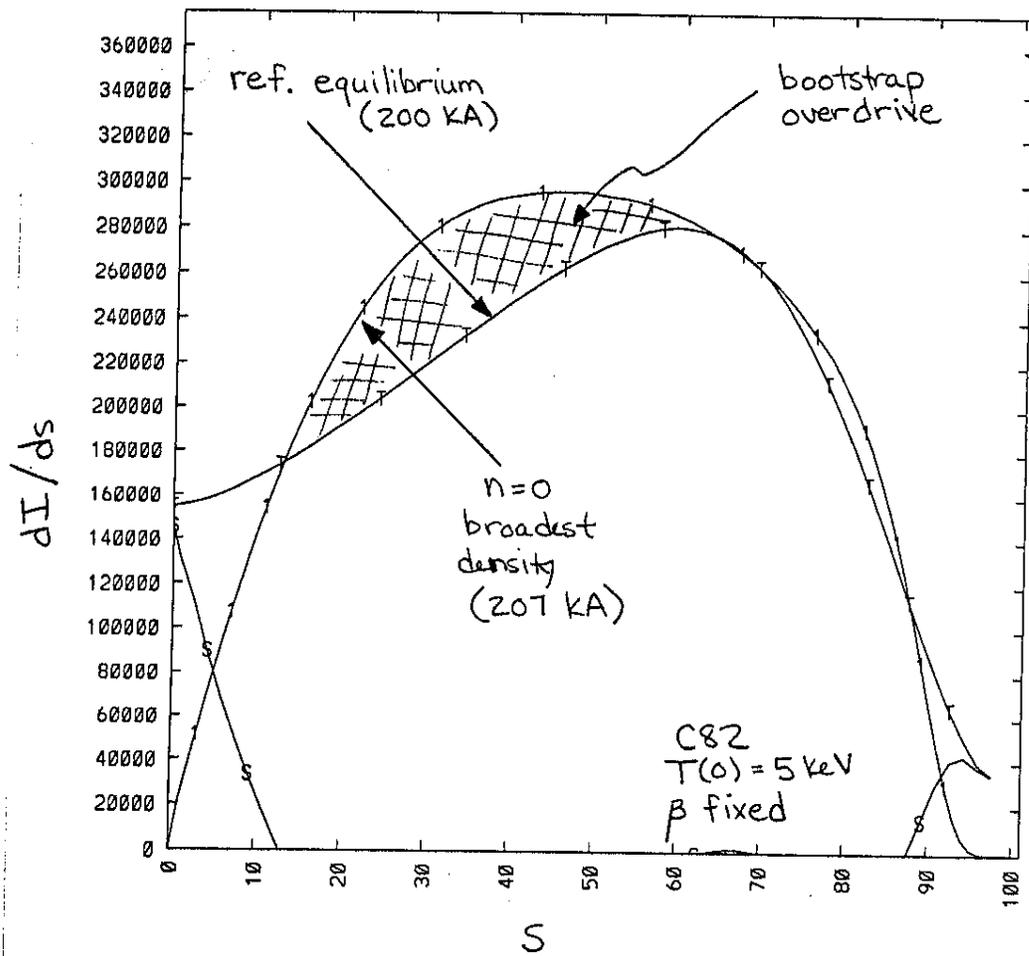


Bootstrap Calculations

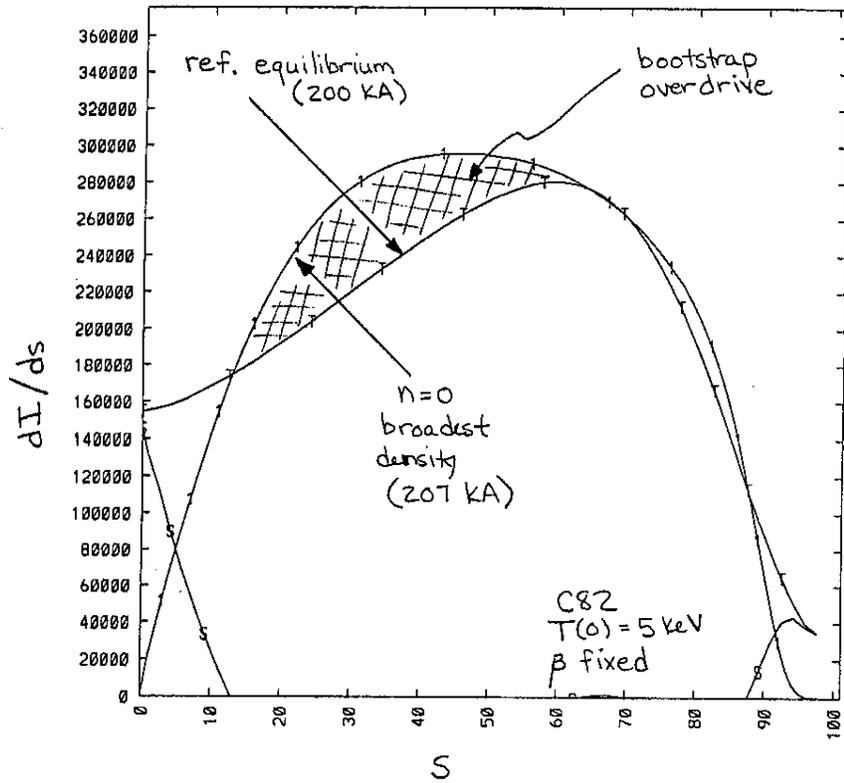
C.Kessel, 5/20/99

- assuming that the $n=0$ bootstrap predictions are correct for QAS configurations, we must now find a way to reduce I_{bs} to recover our equilibrium (C82)
 - broaden density \rightarrow this works well, but we have some bootstrap current misalignment
 - increase collisionality \rightarrow tend to lose too much current near plasma edge before any significant global decrease of the current
 - lower β \rightarrow this is not considered an option
- examine the bootstrap current (again taking $n=0$ prediction as valid) with reactor-like collisionality
 - use C82 equilibrium and lower $T(0)$ from 5 keV to 3 keV
 - this changes the factor nR/T^{**2} from 0.15 to 0.67





$$\frac{nR}{T_2} = .145$$



reactor-like collisionality

$$\frac{nR}{T_2} = .673$$

