Understanding relationship between separatrix and pedestal density is key to core-edge integration

- **Ratio of $n_{e,sep}$ to $n_{e,ped}$ at detachment onset increases with power**
  - $n_{e,sep}$ consistent with Two-Point Model (2PM) when accounting for power dissipation

- **Closed upper divertor reduces pedestal ionization and density**
  - Modeling indicates $D_\perp$ does not change with particle source

✓ **Detachment at lower $n_{e,sep}$ and $n_{e,ped}$ will be critical for core-edge compatibility in future devices**