Balanced Double Null plasmas exhibit exquisite profile control and good impurity screening on the high-field side (HFS) SOL. Results support idea of relocating all RF actuators to HFS to control and mitigate plasma-material interactions.

Good HFS impurity screening in Balanced Double Null...

**High-field side SOL** shows factor of ~2.5 decrease in impurity penetration to N$_2$ puff compared to **Low-field side SOL**

... despite very sharp profiles

**High field side SOL** – very sharp profiles, controlled by magnetic topology

**Low-field side SOL** – broad shoulders

HFS density drops by two orders of magnitude in 6 mm

Supports idea to locate RF actuators on HFS to mitigate PMI