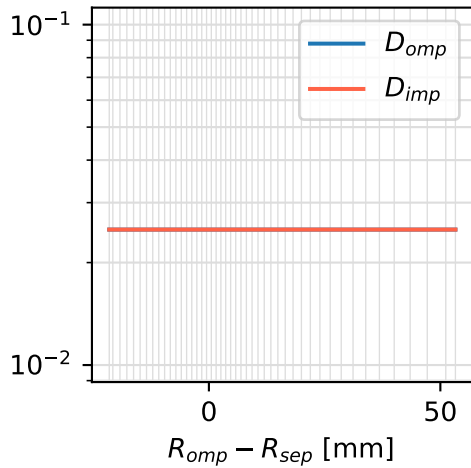


Run label IT494m_OTs2x350deg_imp29e3
Path /home/millierma/arcnt_uedge/final_baseline
Plots created 01:46 AM Thu 21 Dec 2023
UEDGE version 7.0.9.2.2

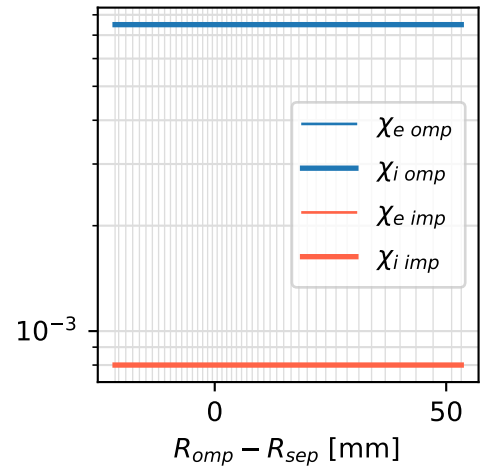
Grid $n_x = 64$, $n_y = 44$, 0 cells are invalid polygons
Core n_i fixed uniform $1.5e+20 \text{ m}^{-3}$
Core n_n set loc flux = $-(1-\text{albedoc})*n_g*vtg/4$
Core T_e, T_i or P_e, P_i fixed $P_e = 6.25 \text{ MW}$, $P_i = 6.25 \text{ MW}$
Core ion $v_{||}$ (up) $d(\text{up})/dy = 0$ at core boundary
Uniform coeffs $D = 0 \text{ m}^2/\text{s}$, $\chi_e = 0 \text{ m}^2/\text{s}$, $\chi_i = 0 \text{ m}^2/\text{s}$
CF wall T_e extrapolated
PF wall T_e fixed 2 eV
CF wall T_i extrapolated
PF wall T_i fixed 2 eV
CF wall n_i extrapolated
PF wall n_i fixed $1e+18 \text{ m}^{-3}$
Flux limits unknown
Recycling coefficient 1 (plates), 1 (walls)
Neutral model inertial neutrals
Impurity Z 10
Impurity model fixed-fraction model
Impurity fraction 0.003 (spatially uniform)
Potential equation off

Converged yes, sim. time 0 s
Field line angle 2.98° inner target, 3.5° outer target
Separatrix $n_i = 8.6e+19 \text{ m}^{-3}$, $n_n = 4.3e+12 \text{ m}^{-3}$, $T_i = 332 \text{ eV}$, $T_e = 513 \text{ eV}$
Outer PF corner p_n 197 Pa
Power sharing 1:2.4, $P_{LCFS \text{ inboard}} = 3.6 \text{ MW}$, $P_{LCFS \text{ outboard}} = 8.8 \text{ MW}$
 $P_{\text{rad imp}}$ $P_{\text{tot}} = 6.5 \text{ MW}$, $P_{\text{xpt}} = 2.6 \text{ MW}$, $P_{\text{ileg}} = 0.044 \text{ MW}$, $P_{\text{oleg}} = 3 \text{ MW}$,
 $P_{\text{main chamber SOL}} = 1.1 \text{ MW}$, $P_{\text{core}} = 0.11 \text{ MW}$
Power balance $P_{\text{loss}} = 13 \text{ MW} = P_{\text{core}} + 7.6\%$
 $(P_{IT} = 0.95 \text{ MW}, P_{OT} = 3.8 \text{ MW}, P_{CFW} = 0.14 \text{ MW}, P_{PFW} = -0.3 \text{ MW}, P_H = 2.7 \text{ MW}, P_I = 6.5 \text{ MW})$
Density balance $\Sigma_{xy} |\Sigma_s (\Delta n)_s^{xy}| / \Sigma_{xy} \Sigma_s |(\Delta n)_s^{xy}| = 1.6e-08\%$

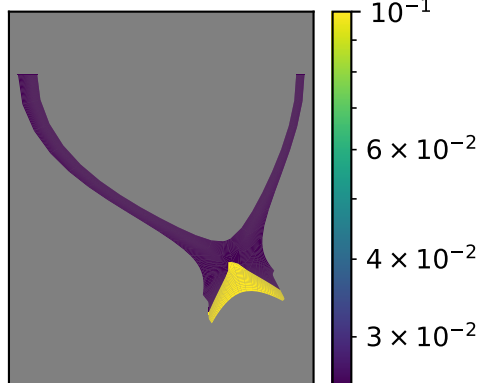
$D [\text{m}^2/\text{s}]$



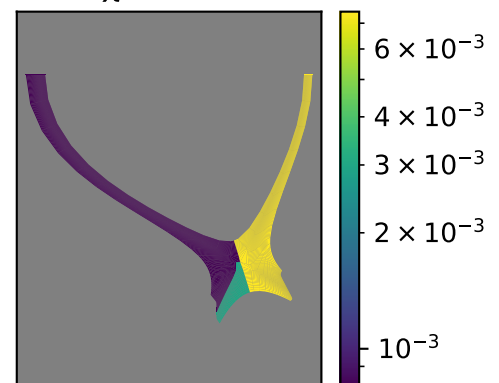
$\chi [\text{m}^2/\text{s}]$

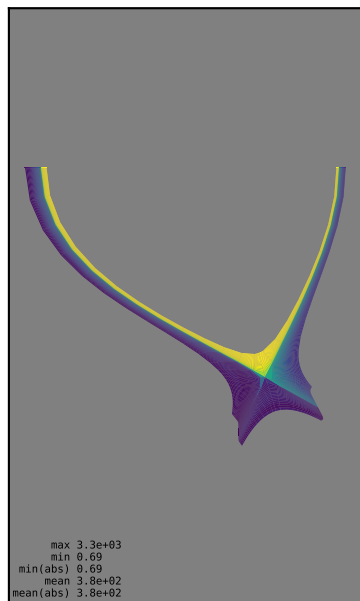
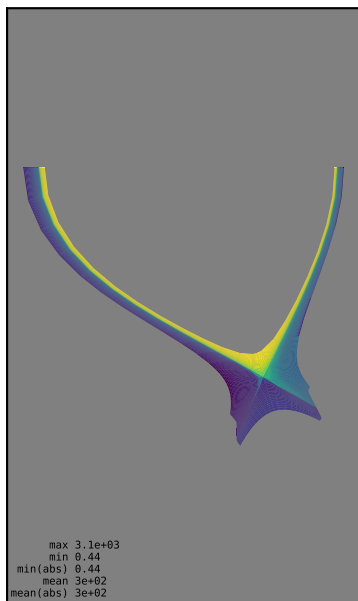
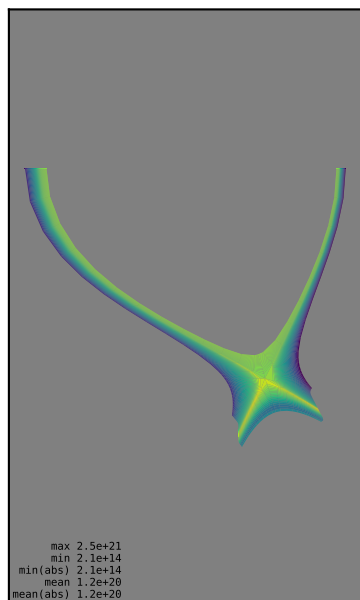
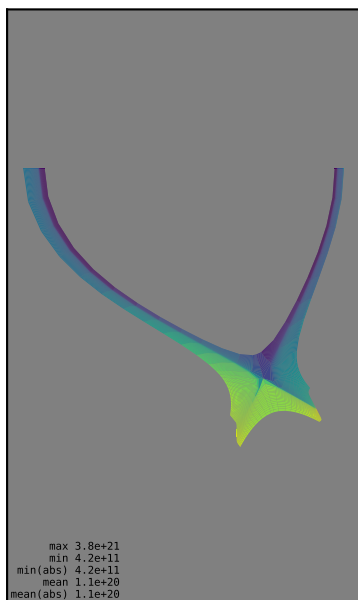
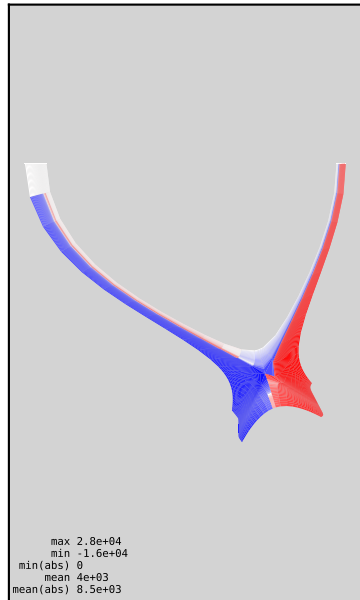
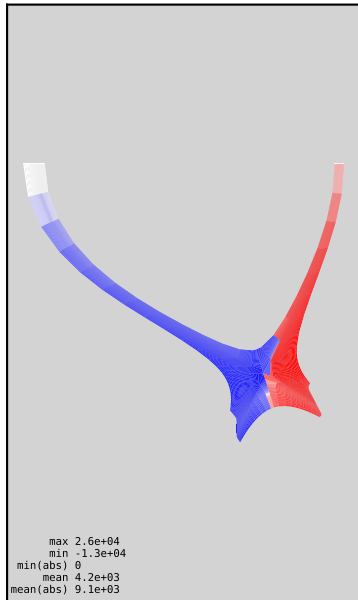


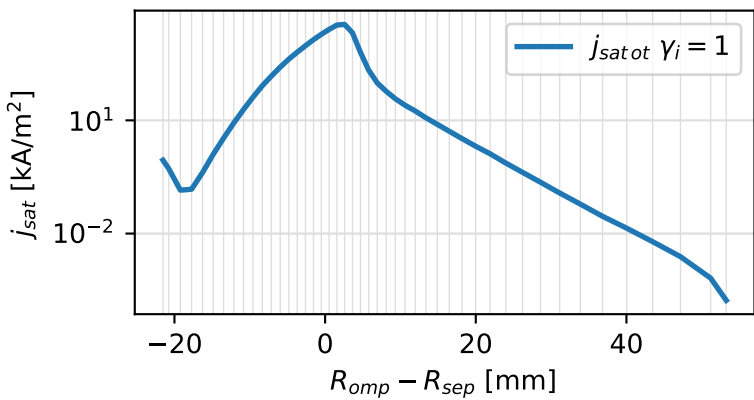
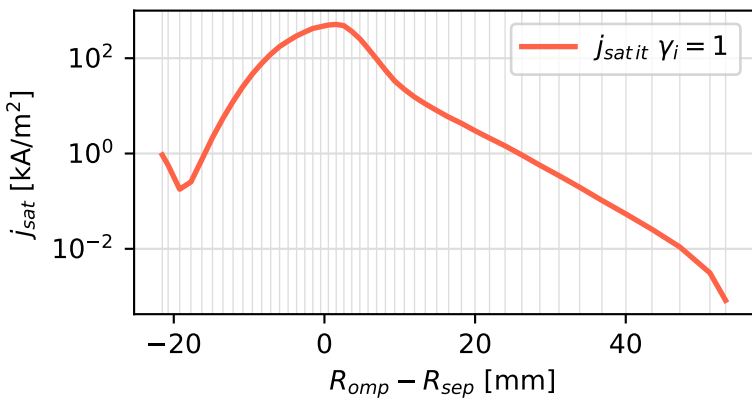
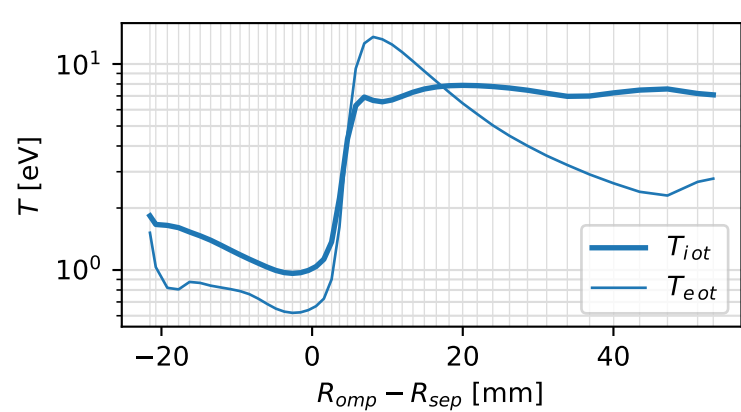
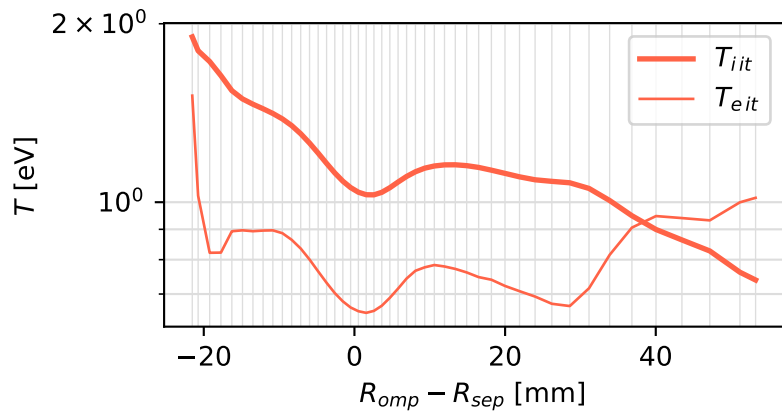
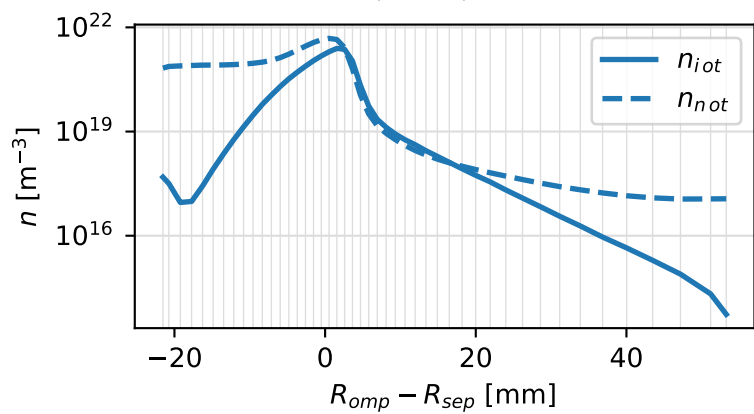
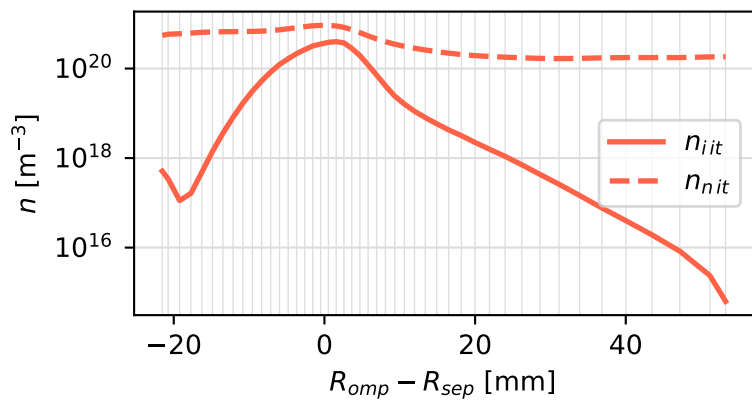
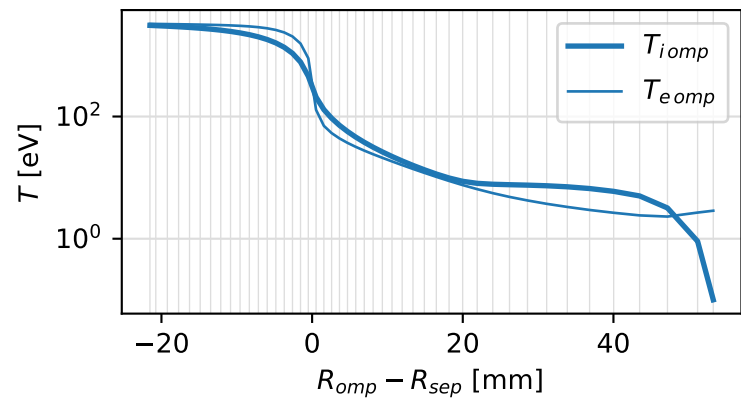
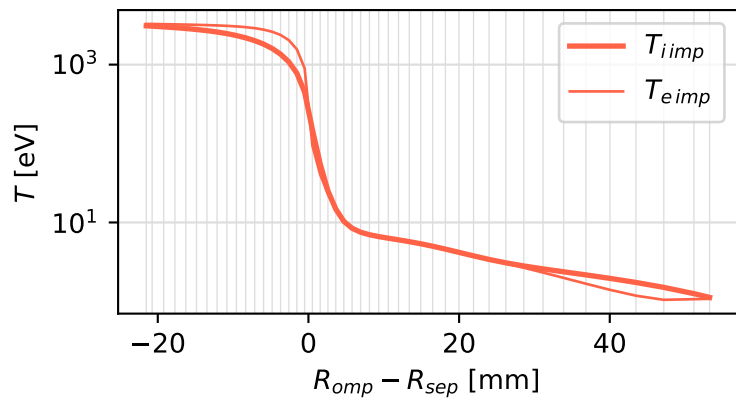
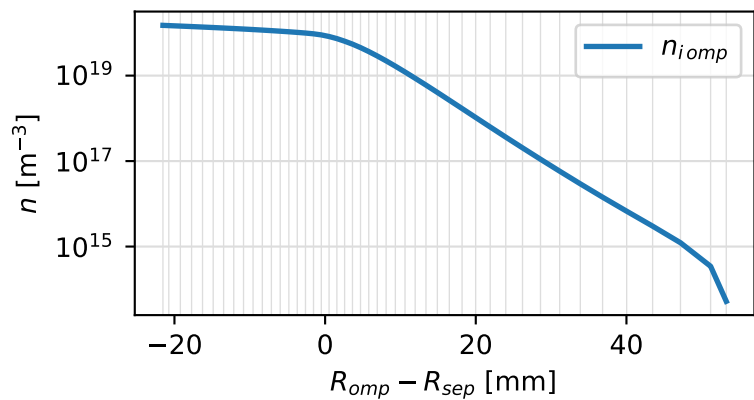
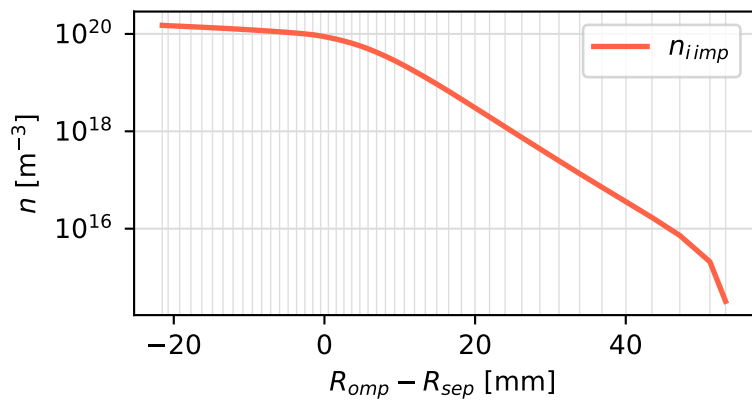
$D [\text{m}^2/\text{s}]$

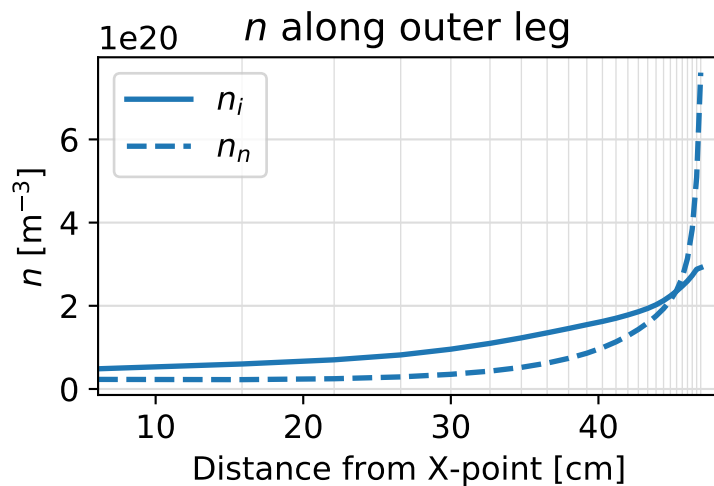
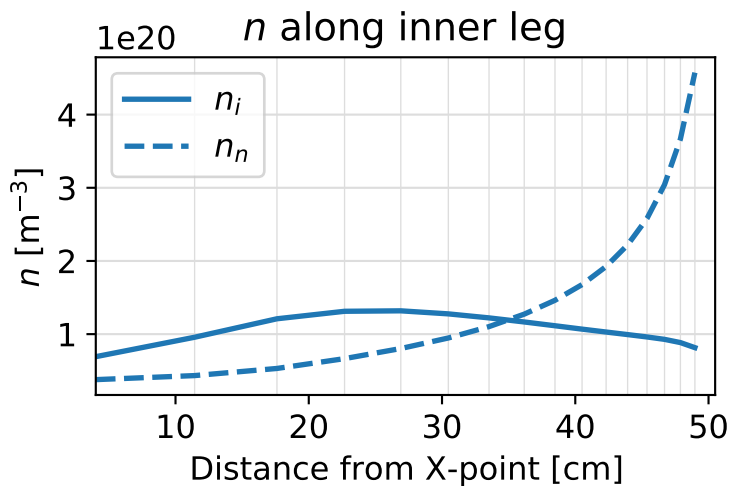
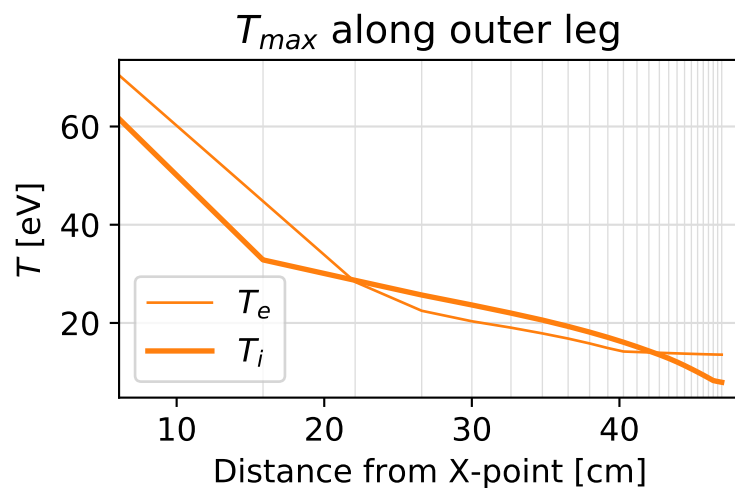
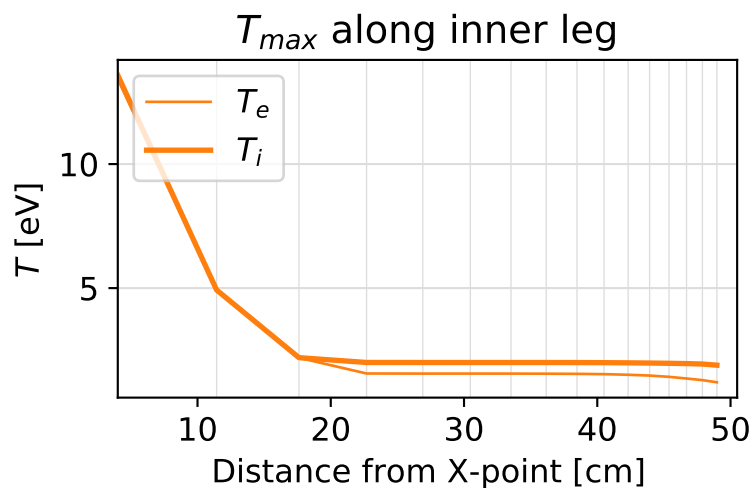
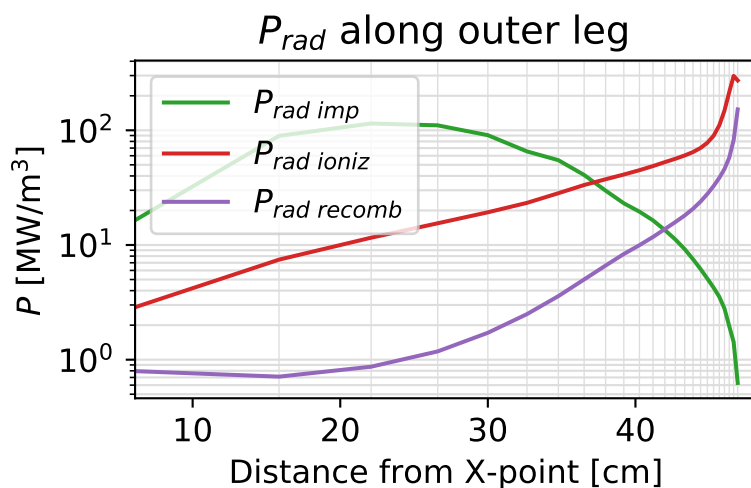
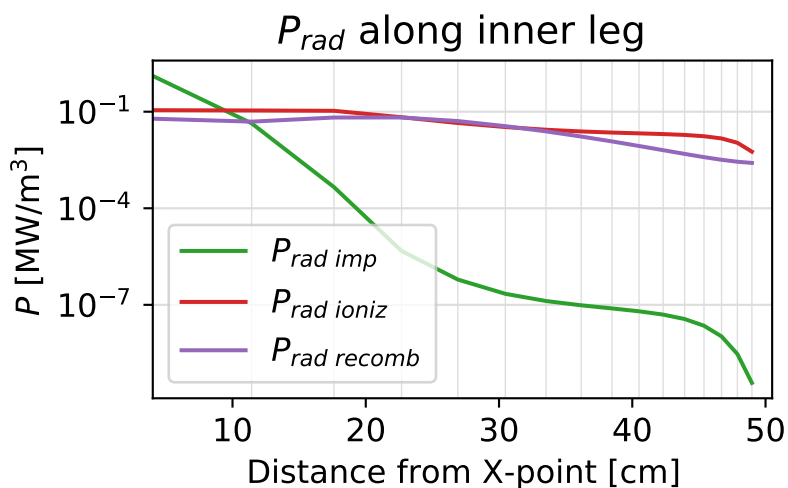
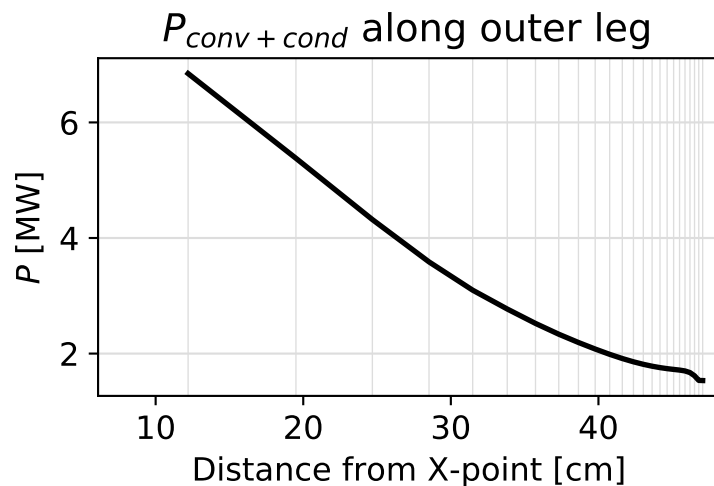
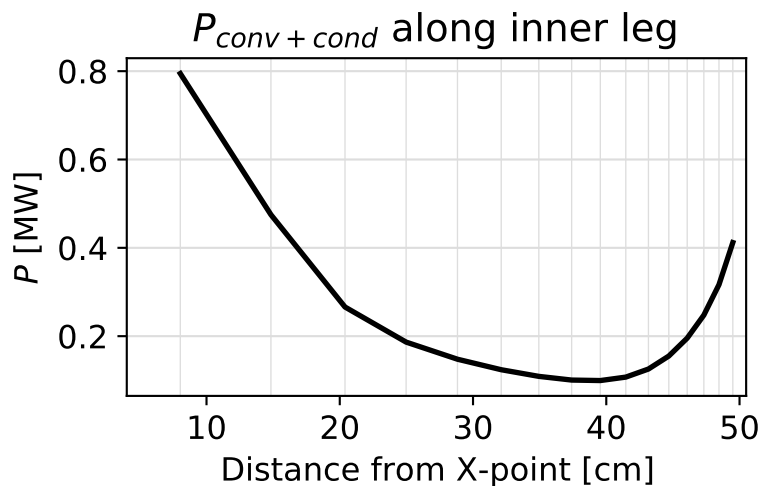


$\chi [\text{m}^2/\text{s}]$

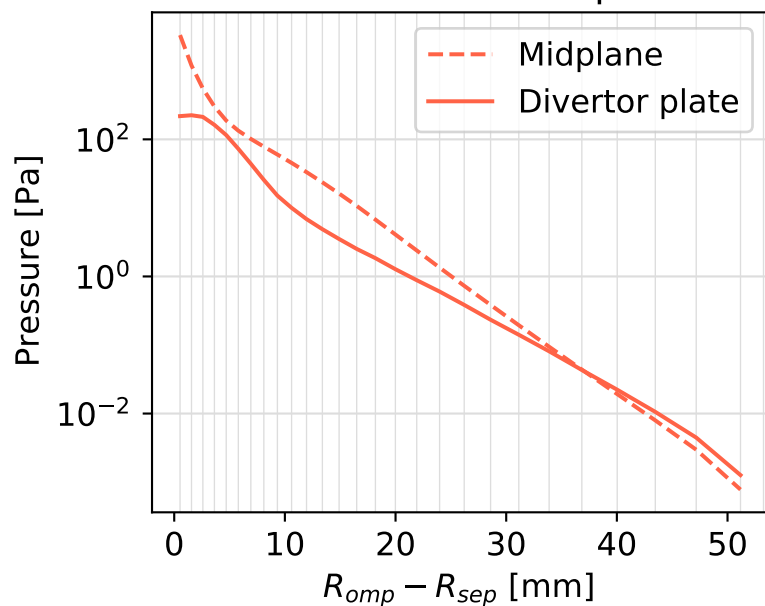


T_e [eV] T_i [eV] n_i [m⁻³] n_n [m⁻³] u_{pi} [m/s] u_{pn} [m/s]

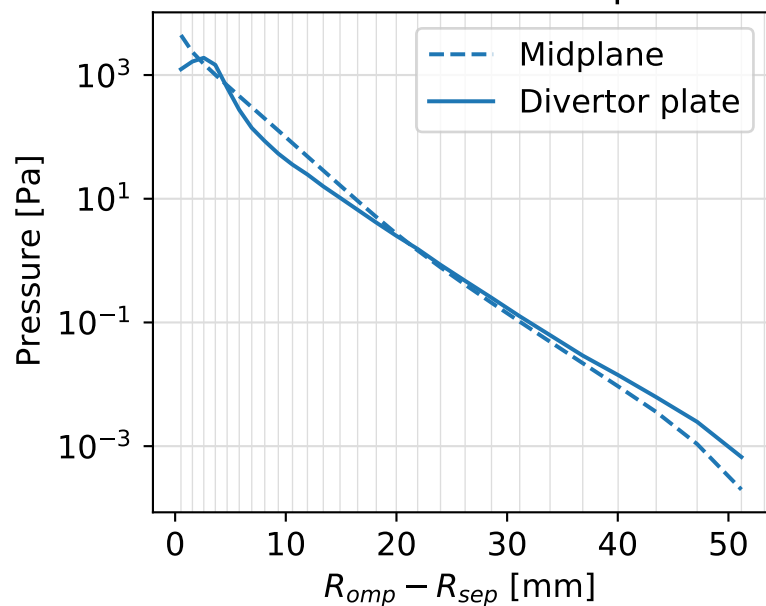
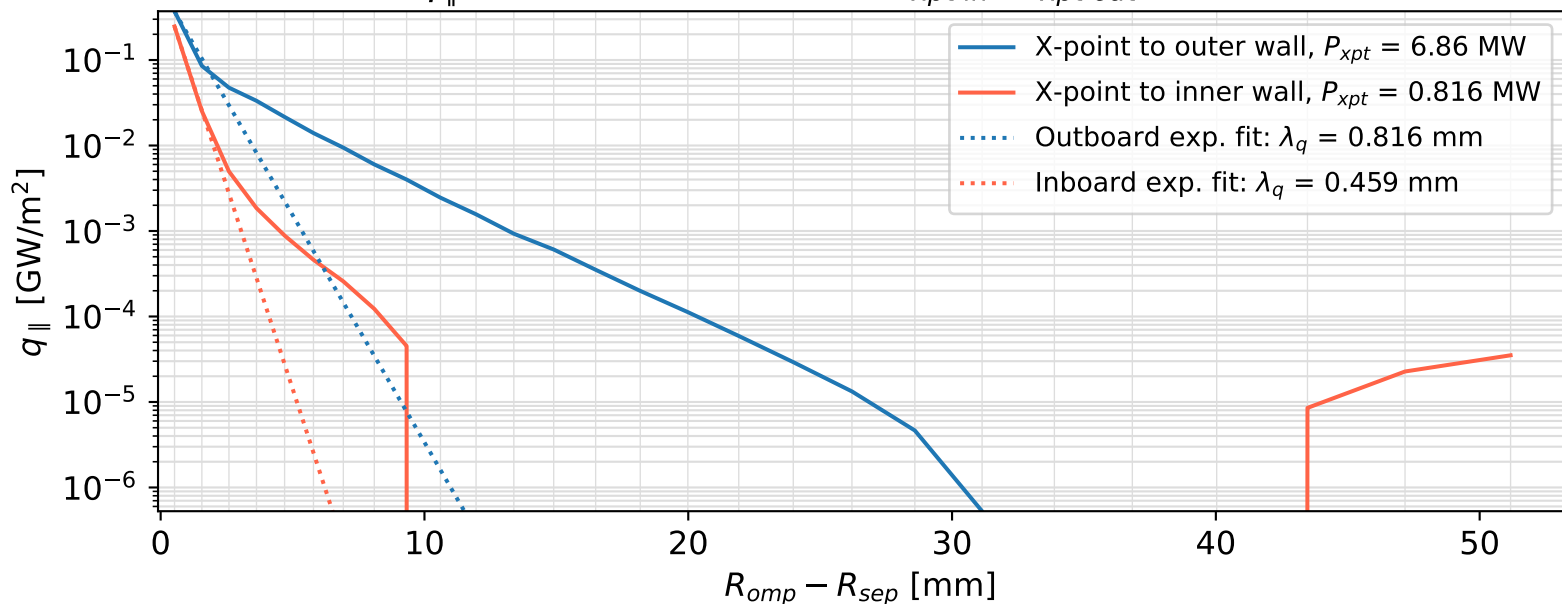
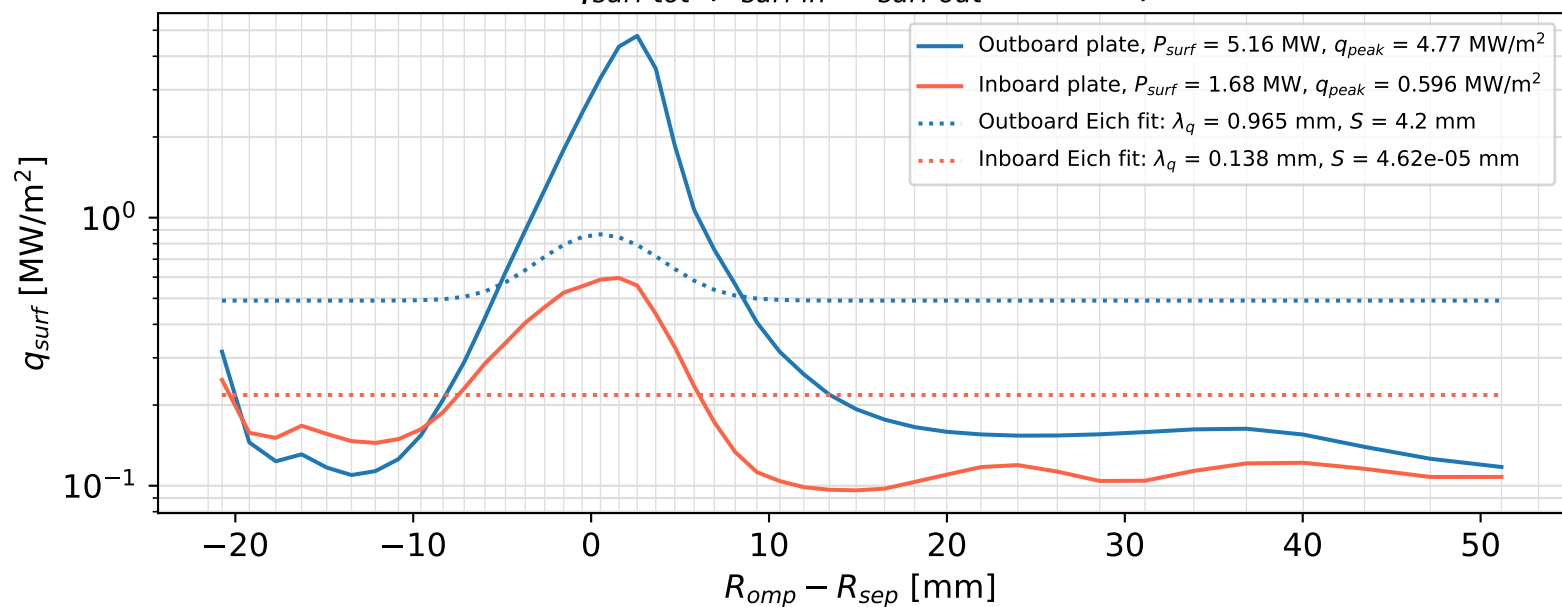




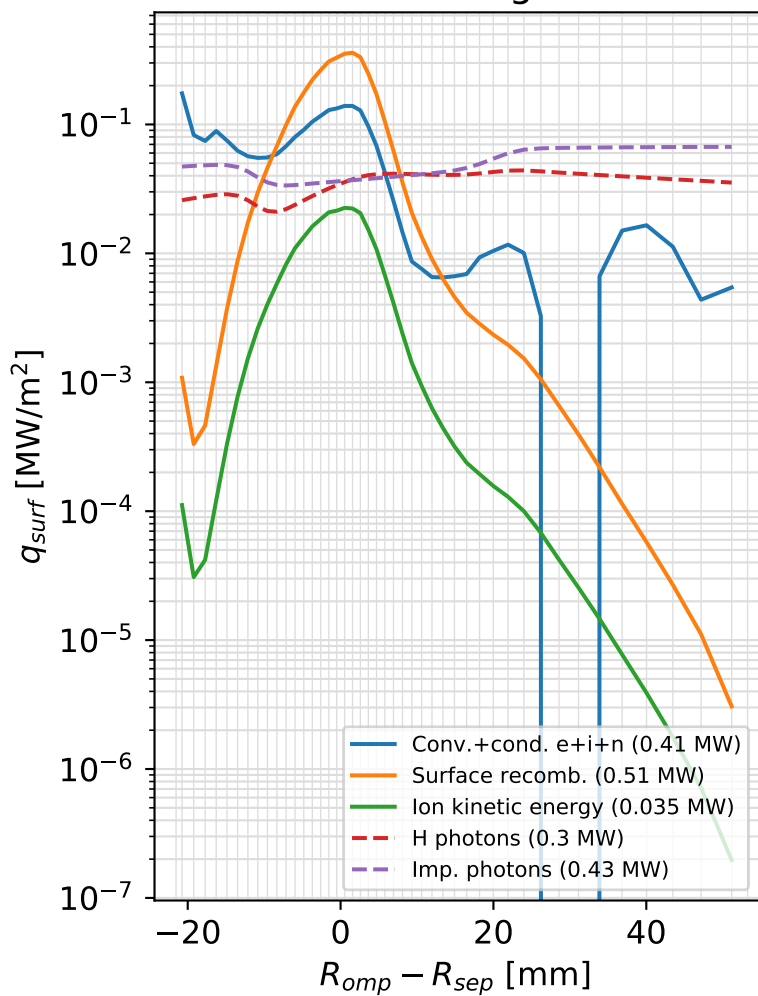
Inboard thermal+ram pressure



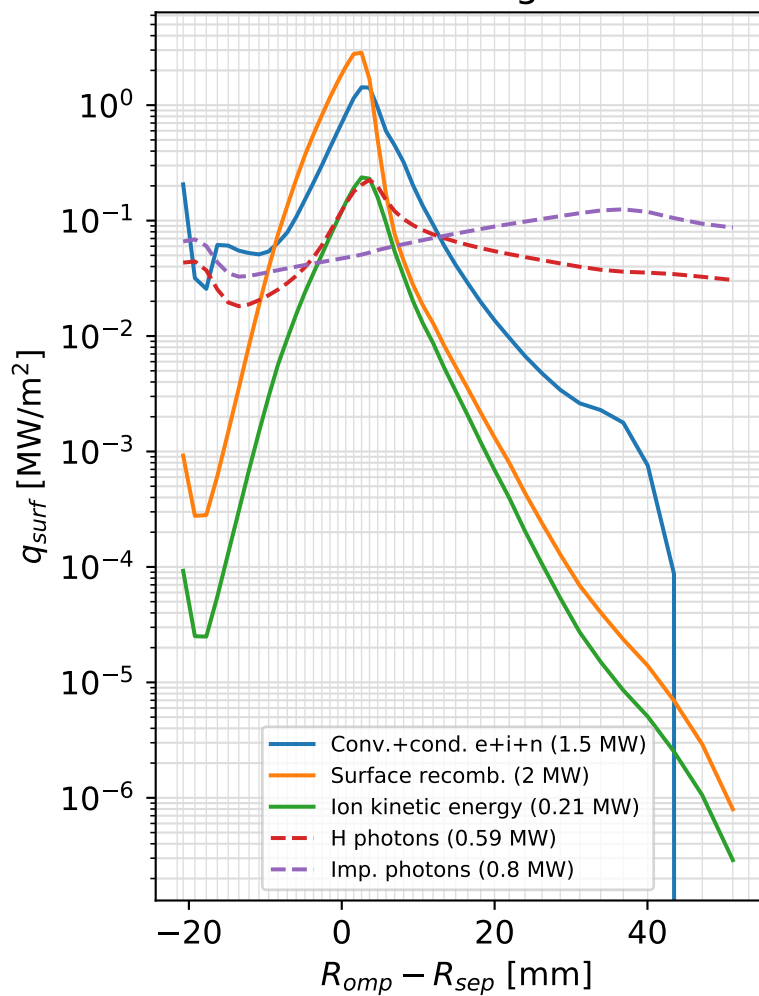
Outboard thermal+ram pressure

 q_{\parallel} at divertor entrance ($P_{xpt\ in} : P_{xpt\ out} = 1:8.4$) $q_{surf\ tot}$ ($P_{surf\ in} : P_{surf\ out} = 1:3.1$)

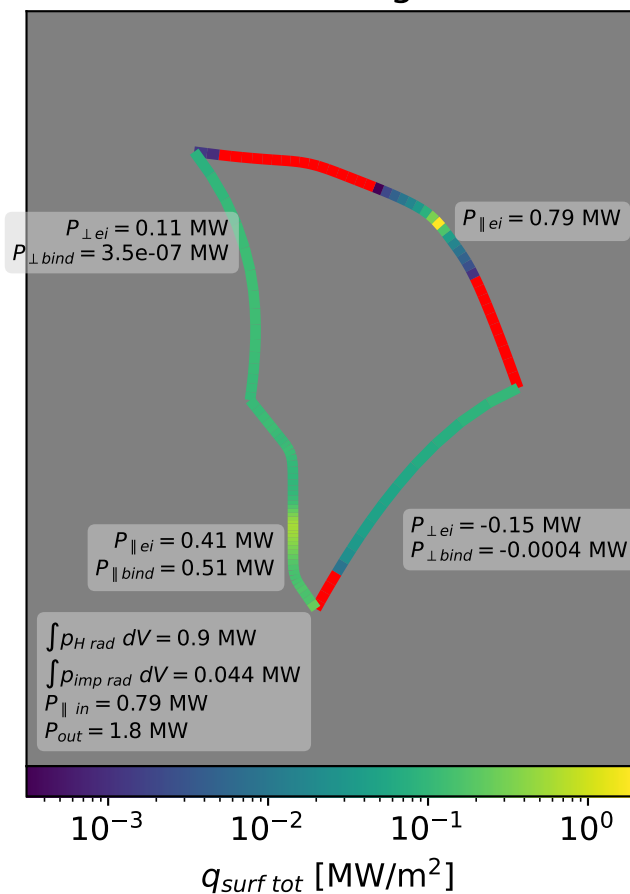
Inner target



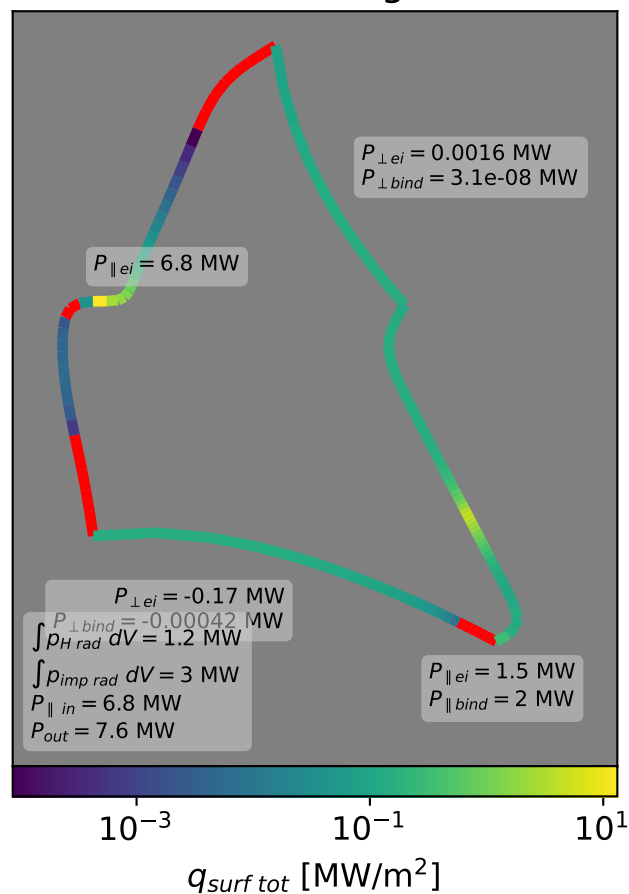
Outer target

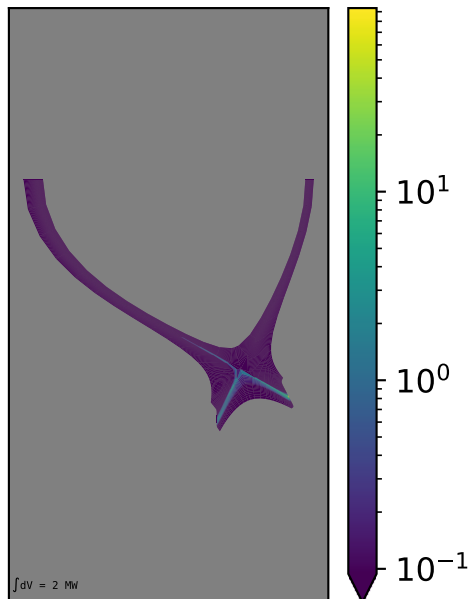
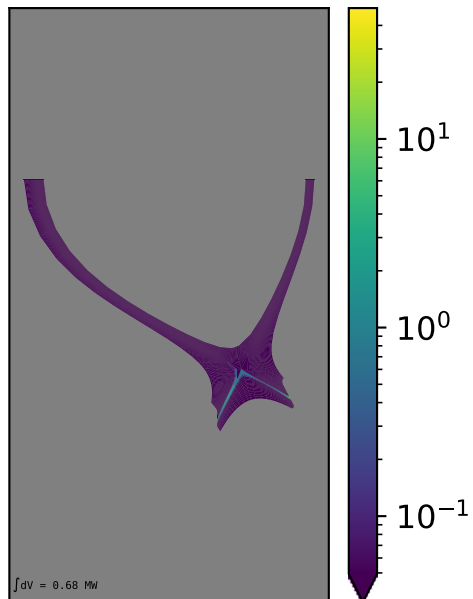
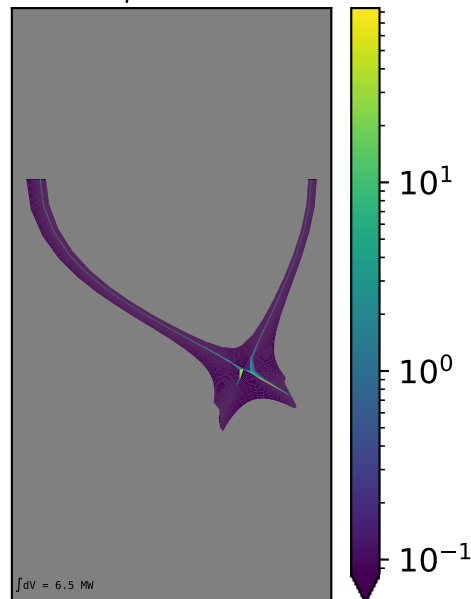
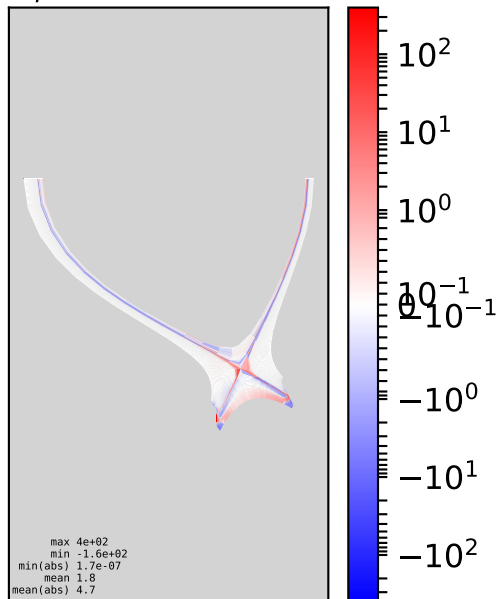
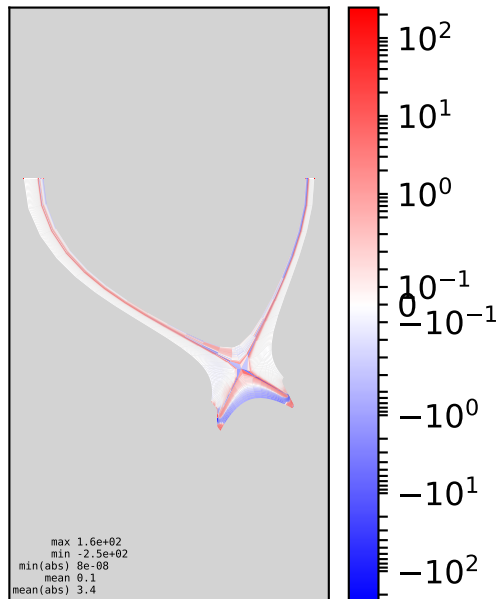
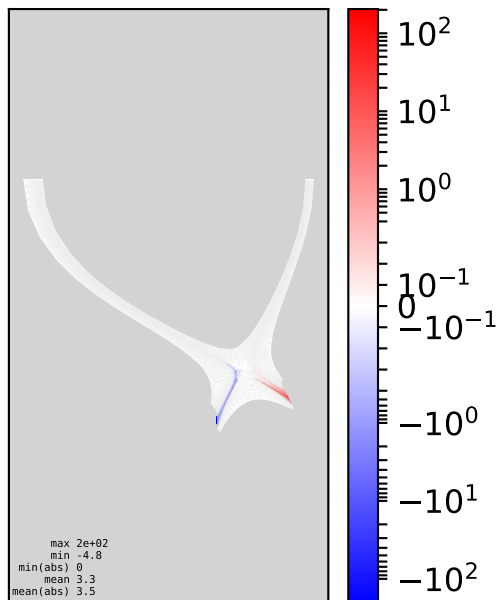
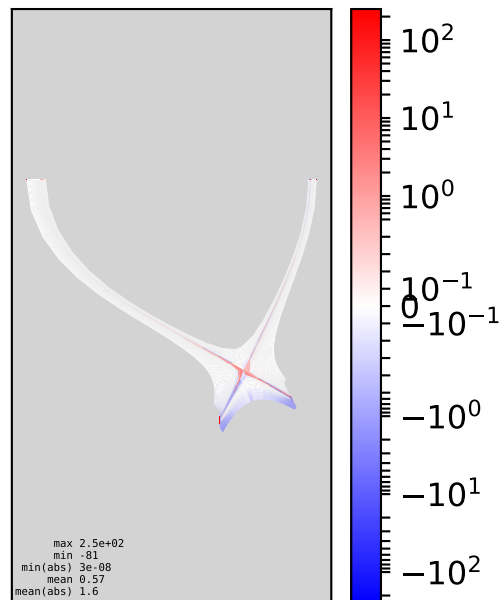


Inner leg

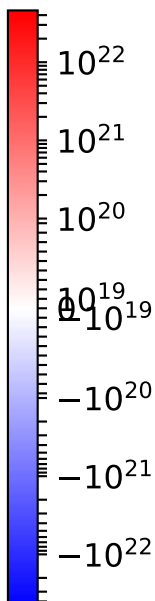
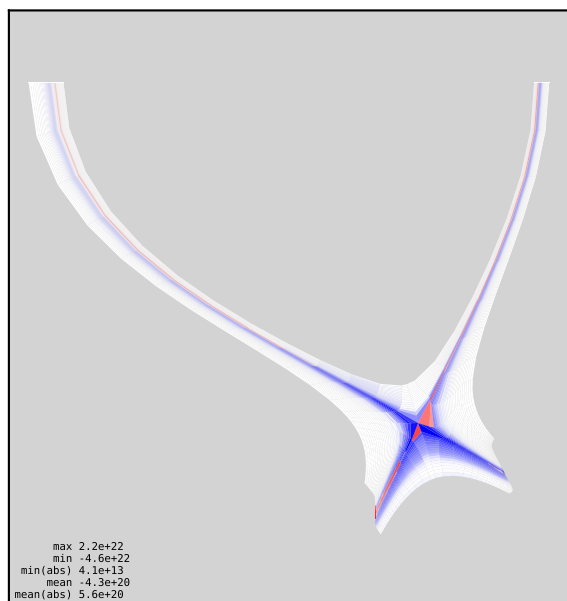


Outer leg

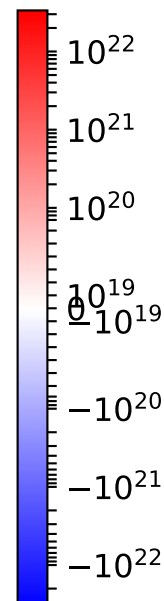
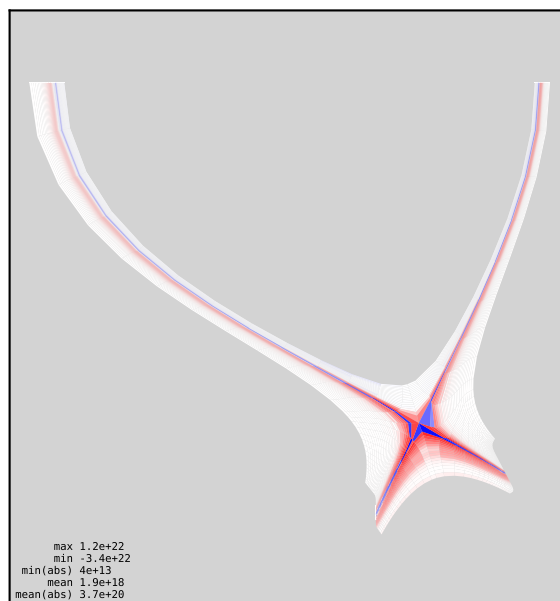


$P_{rad\ ioniz}$ [MW/m³] $P_{rad\ recomb}$ [MW/m³] $P_{rad\ imp}$ [MW/m³] $P_{poloidal}$ [MW/m³] P_{radial} [MW/m³] $P_{ion\ KE}$ [MW/m³]Power balance [MW/m³]

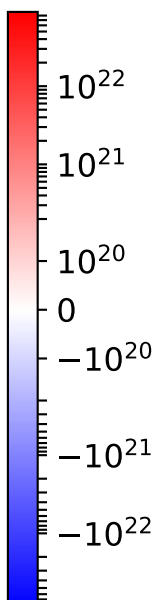
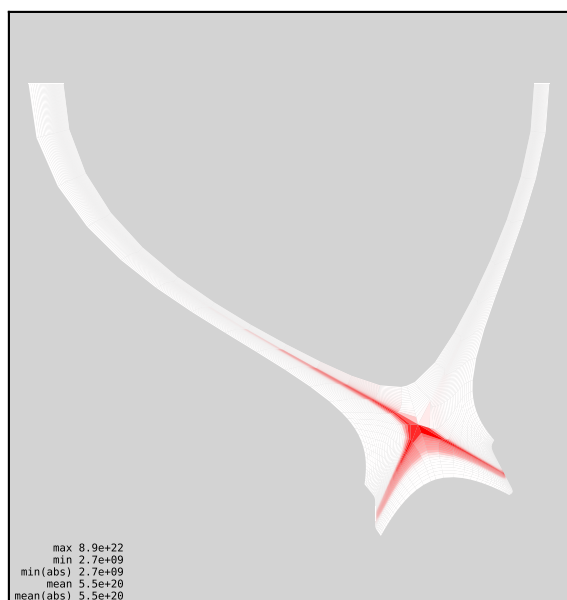
Poloidal source [s^{-1}]



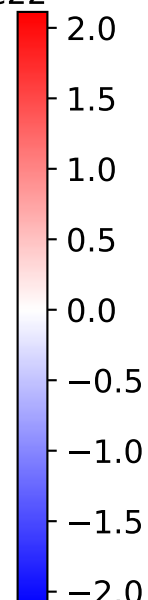
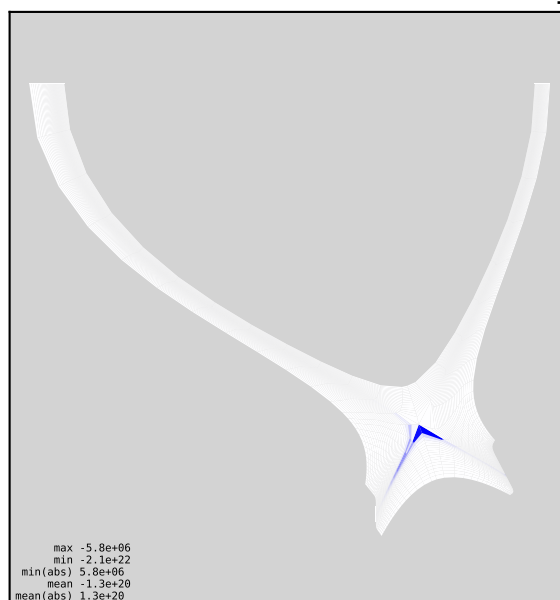
Radial source [s^{-1}]



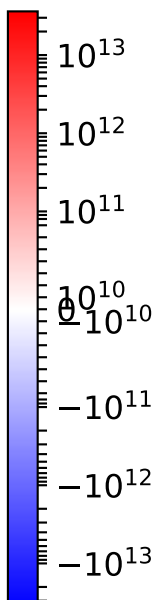
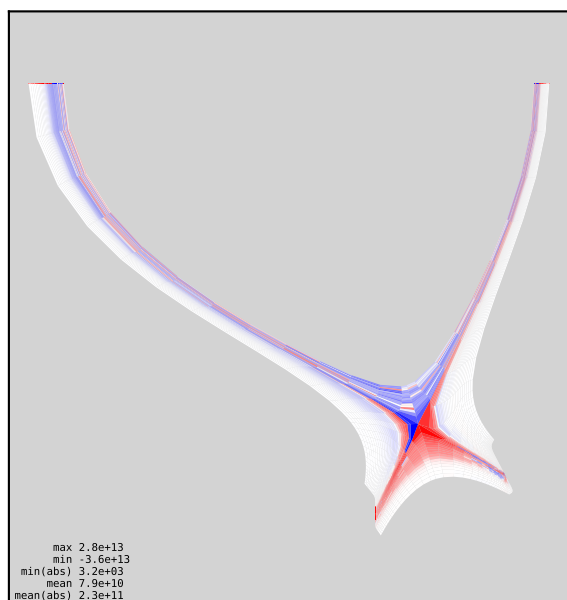
Ionization source [s^{-1}]



Recombination source [s^{-1}]



Particle balance [s^{-1}]



Sum over core poloidal cells

