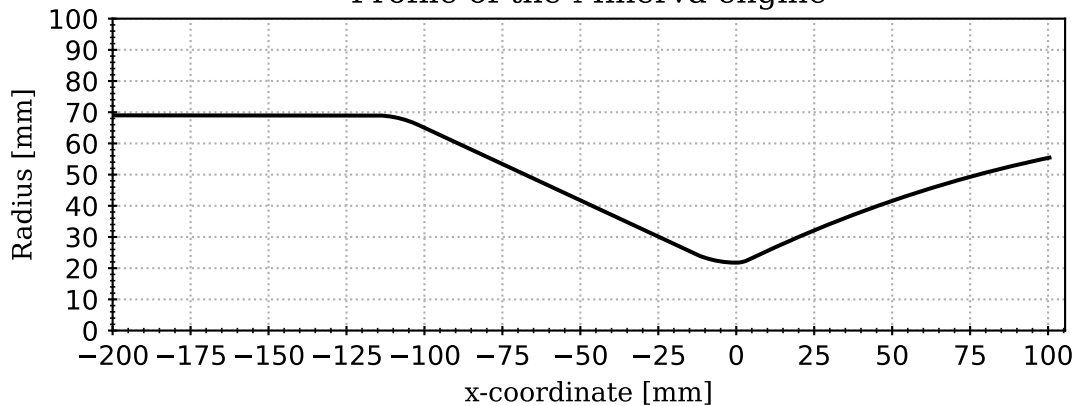
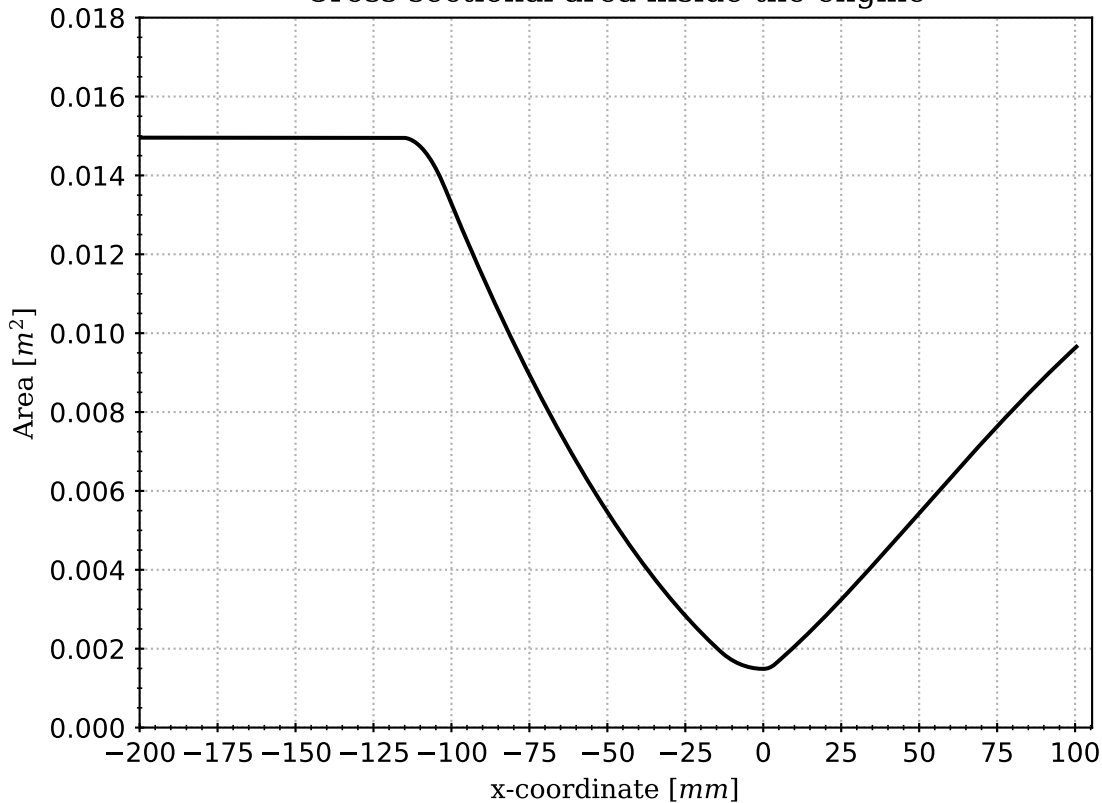


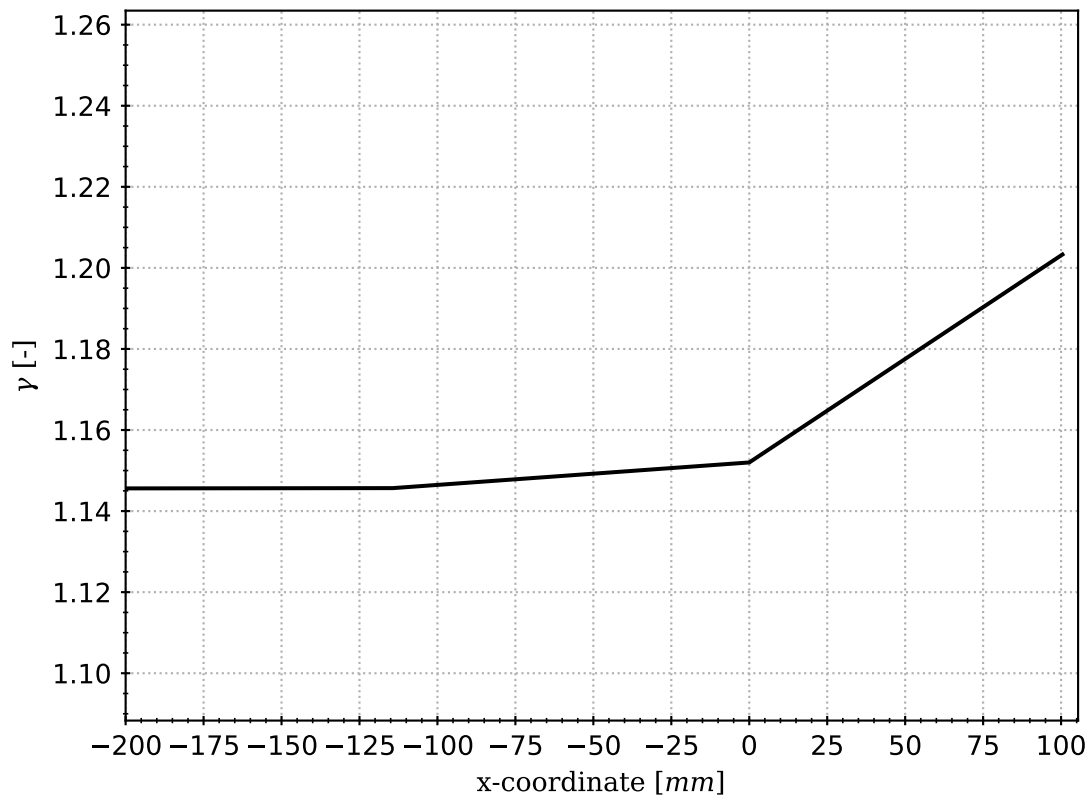
Profile of the Minerva engine



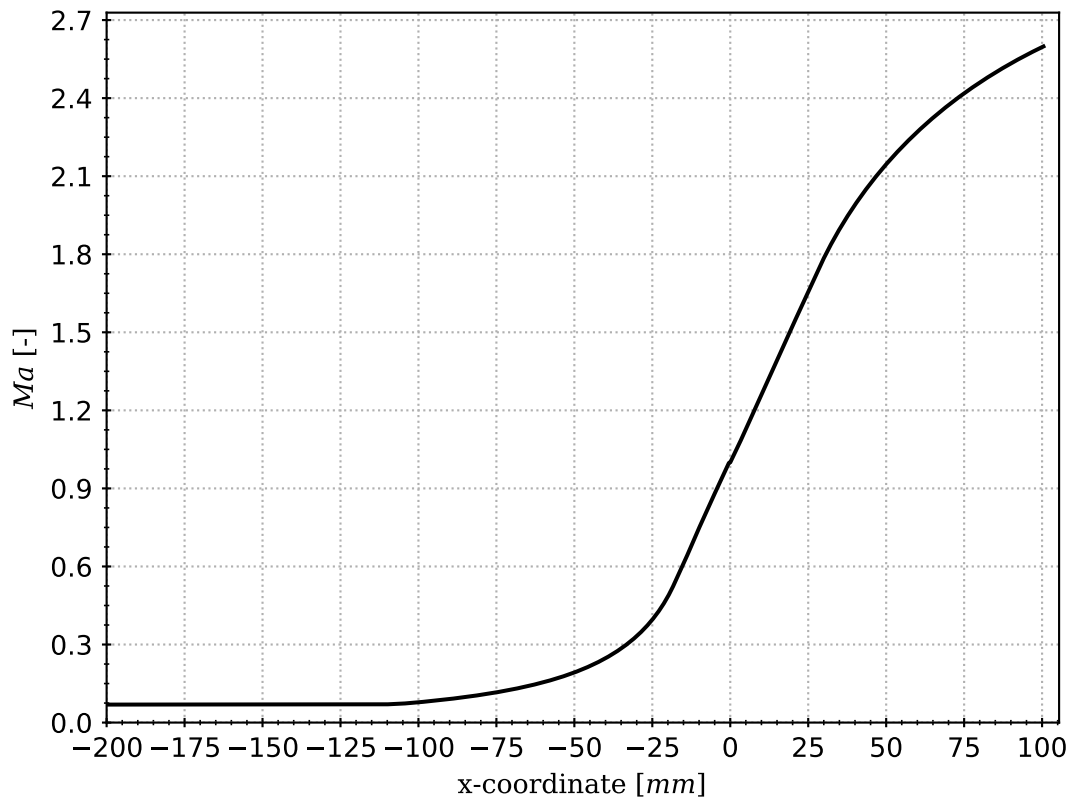
Cross-sectional area inside the engine

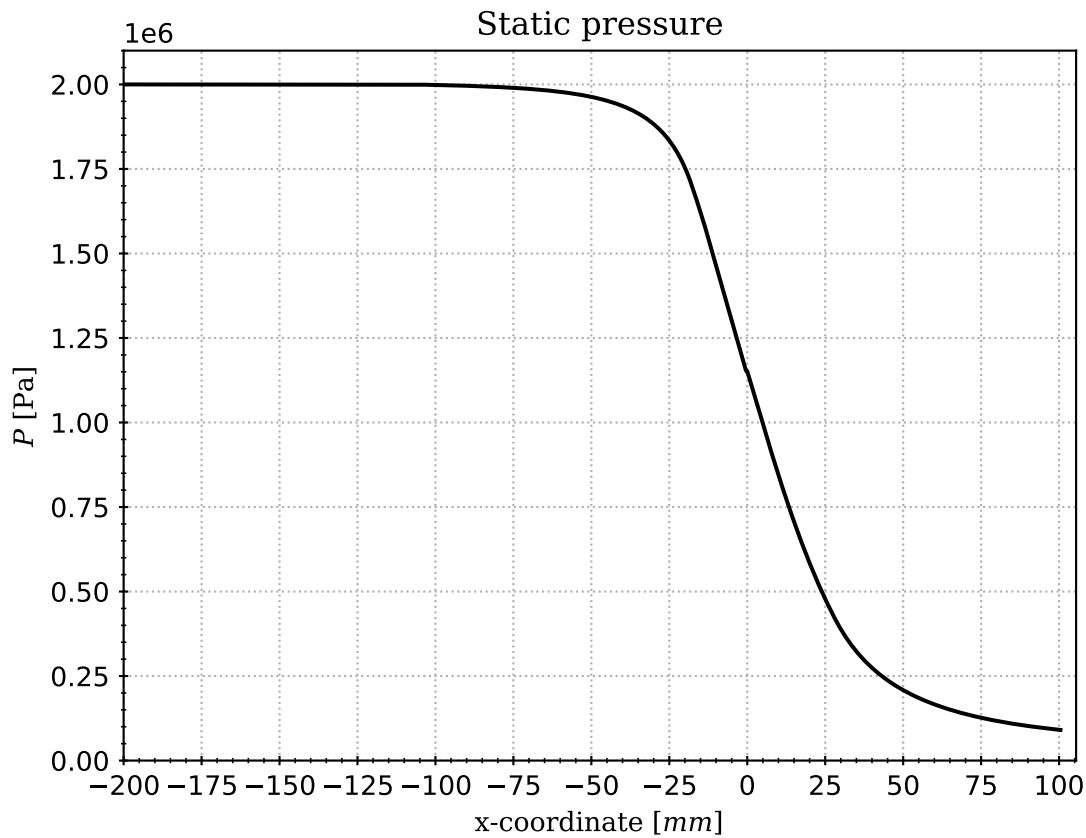


Adiabatic constant γ of the combustion gases

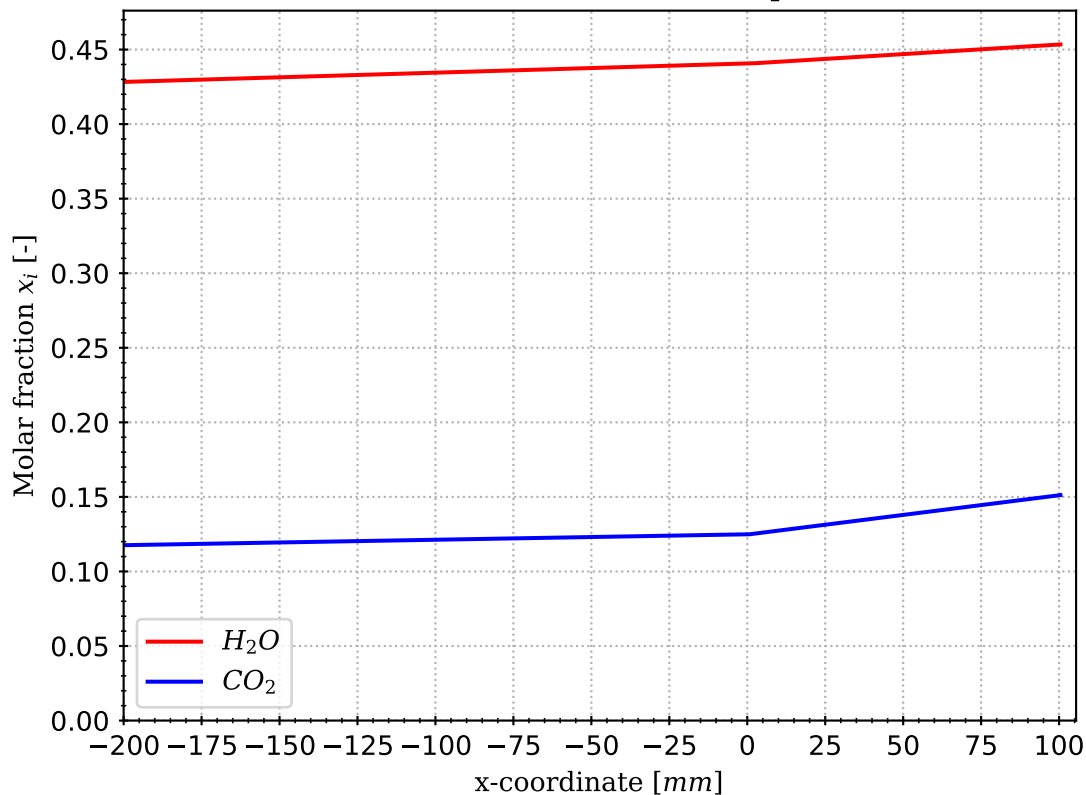


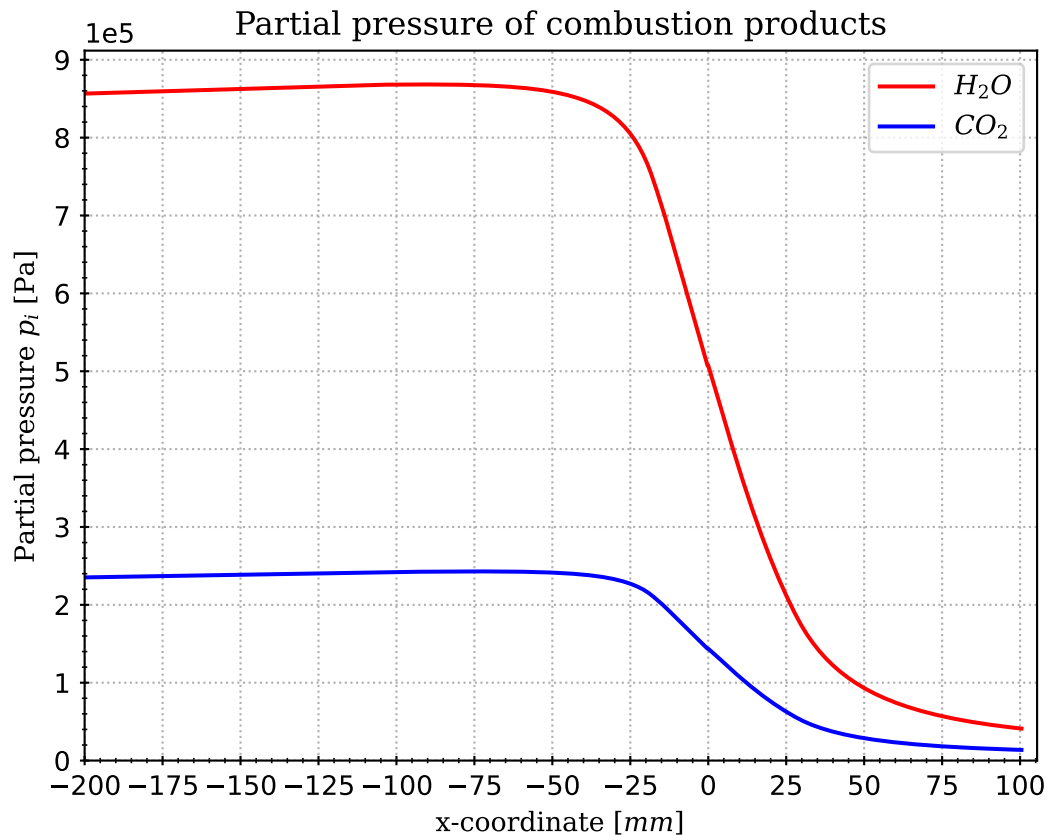
Mach number



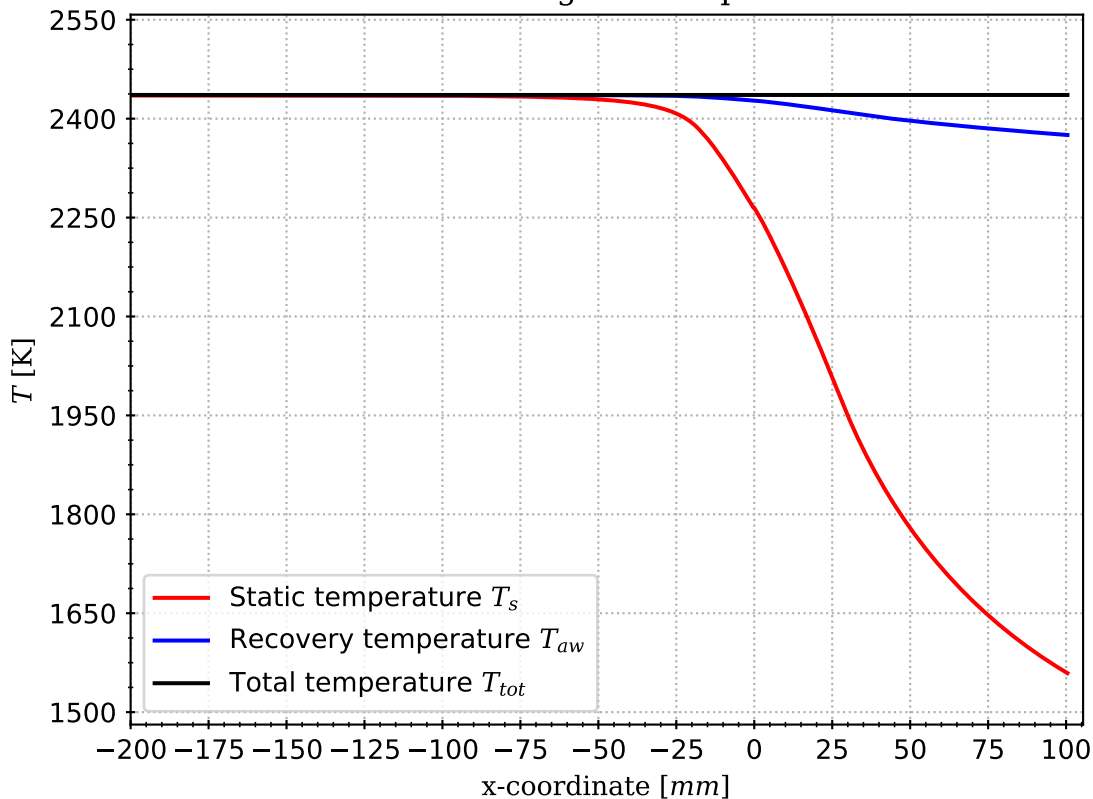


Molar fraction of combustion products

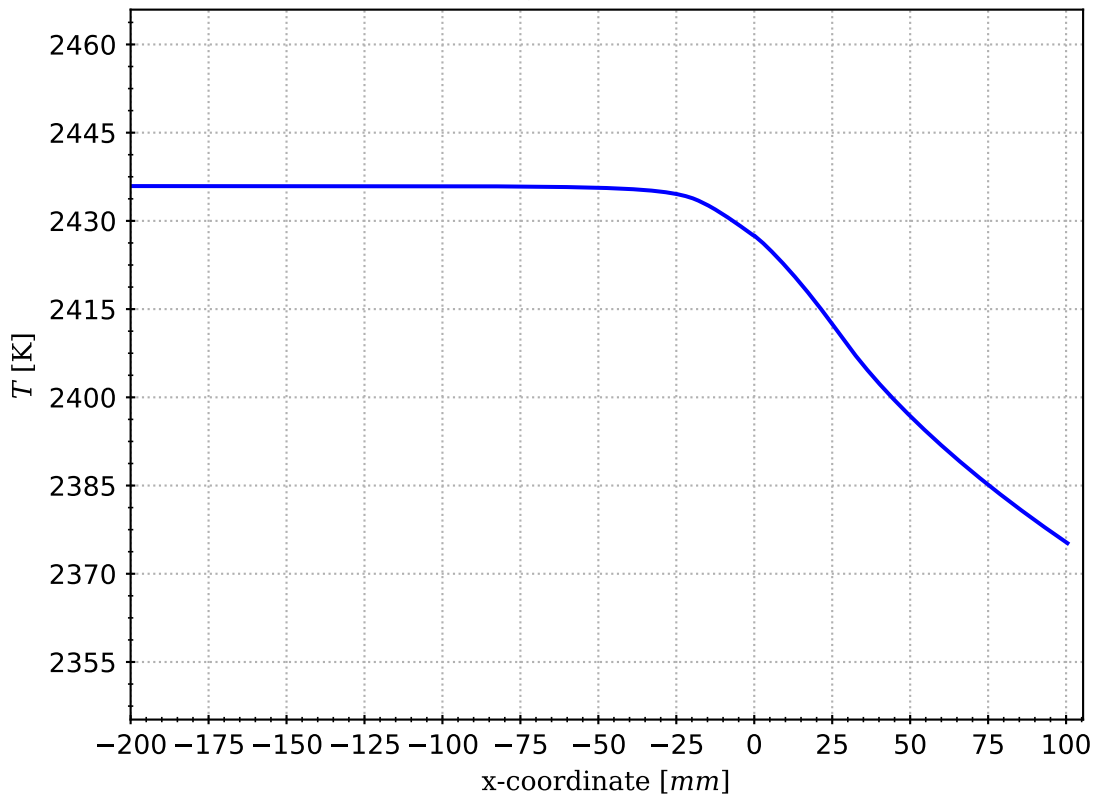




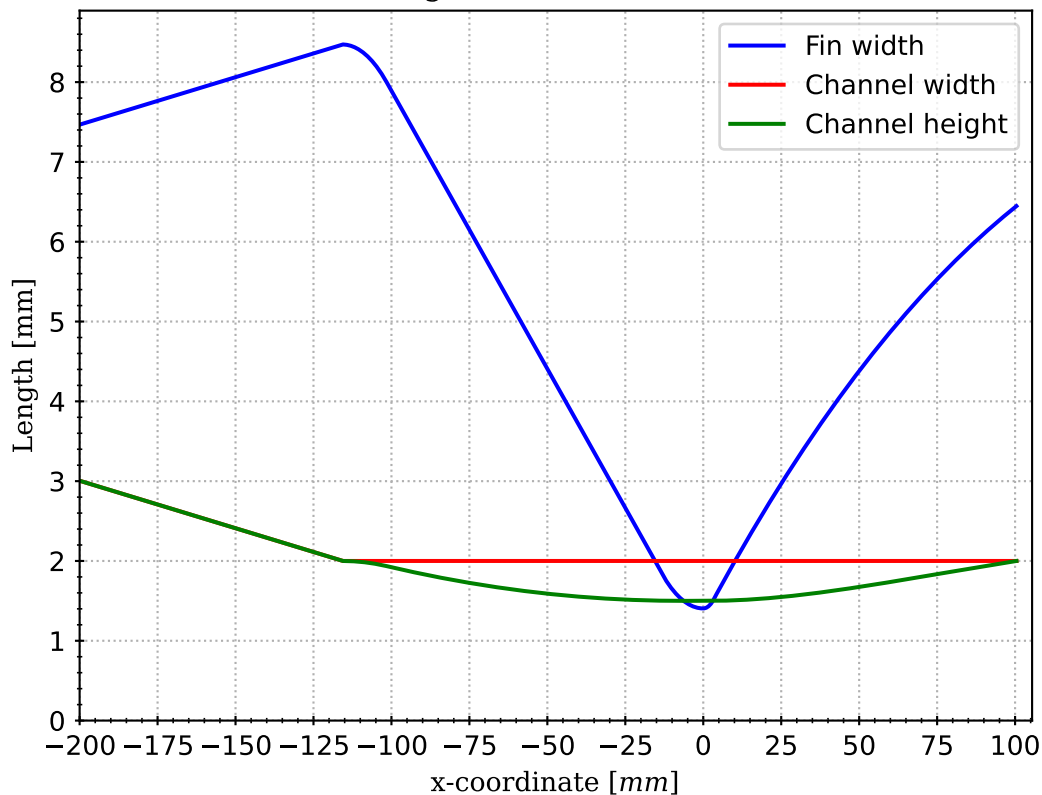
Combustion gases temperature



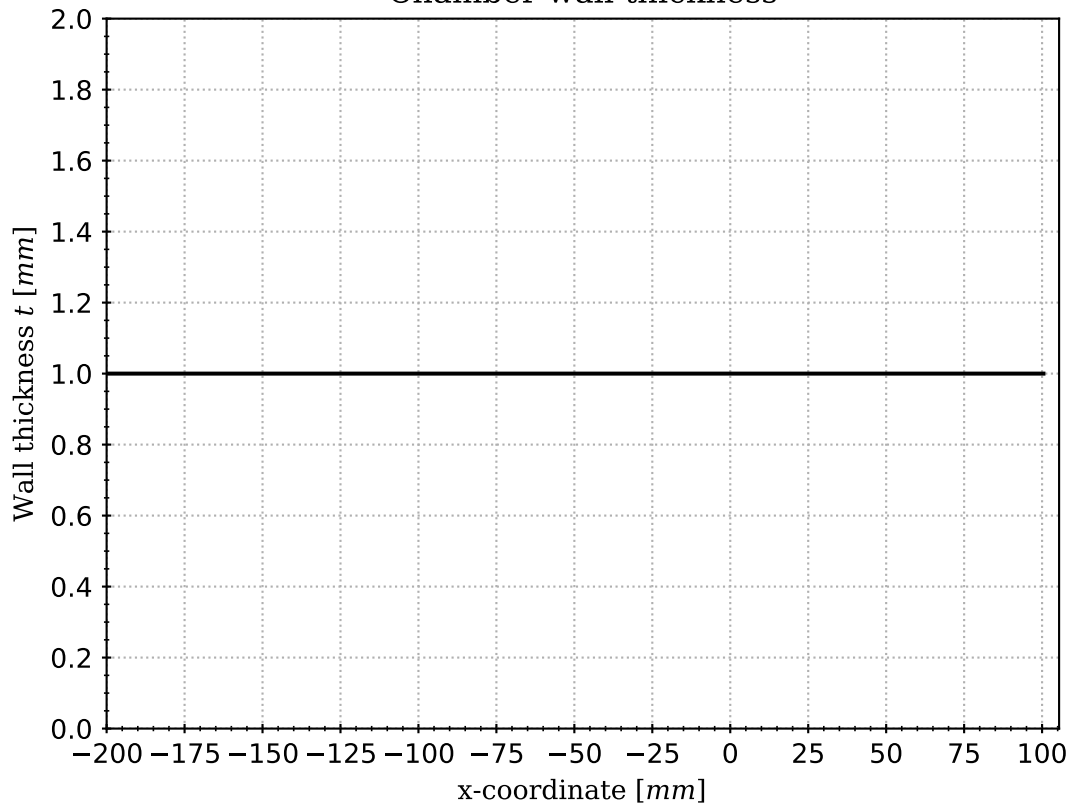
Recovery temperature T_{aw}

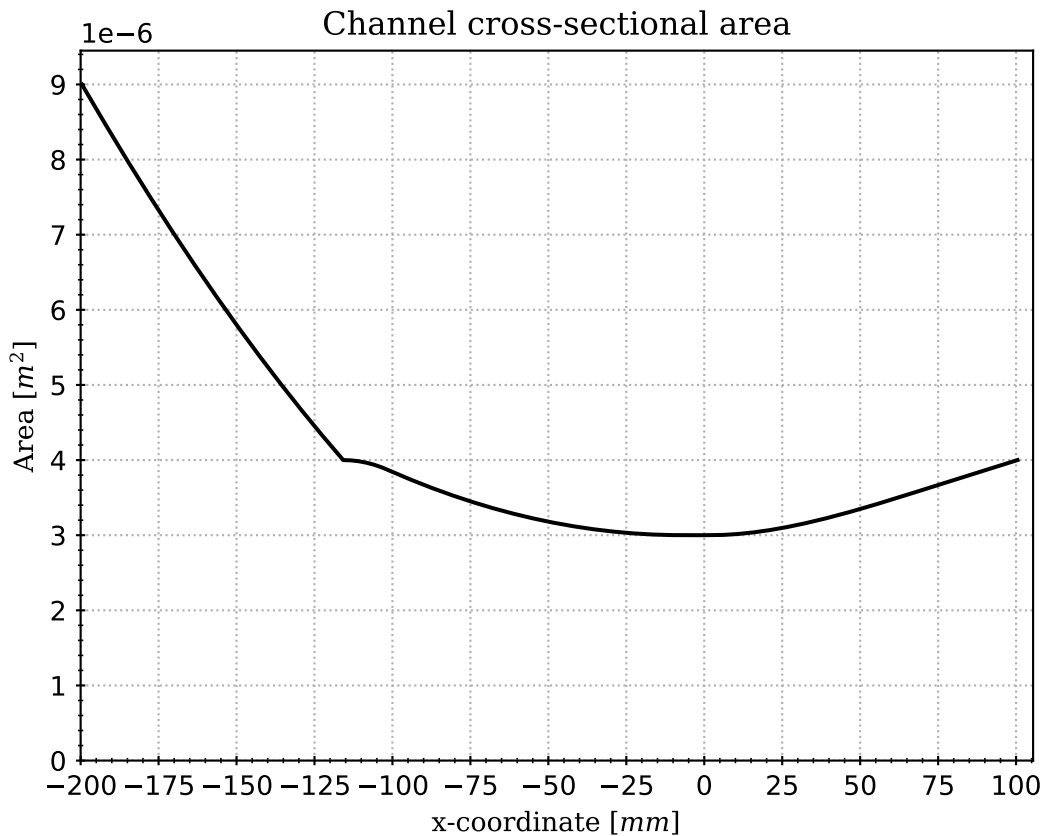


Cooling channels dimensions

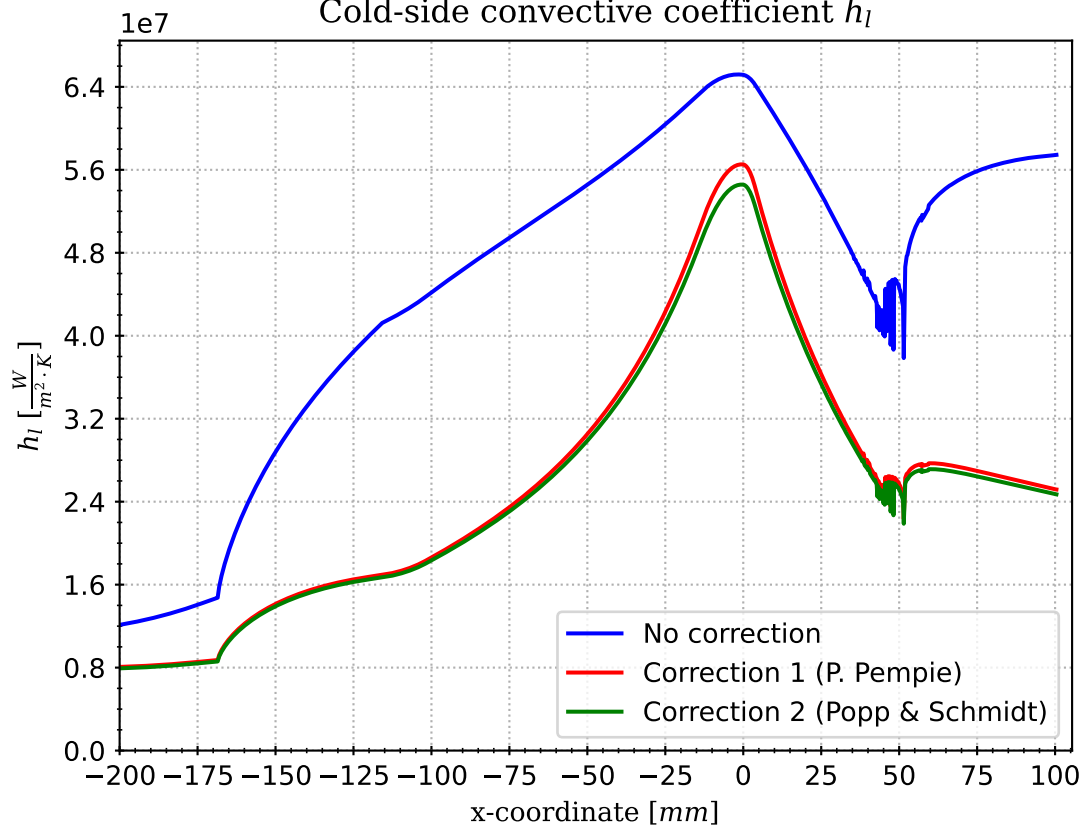


Chamber wall thickness

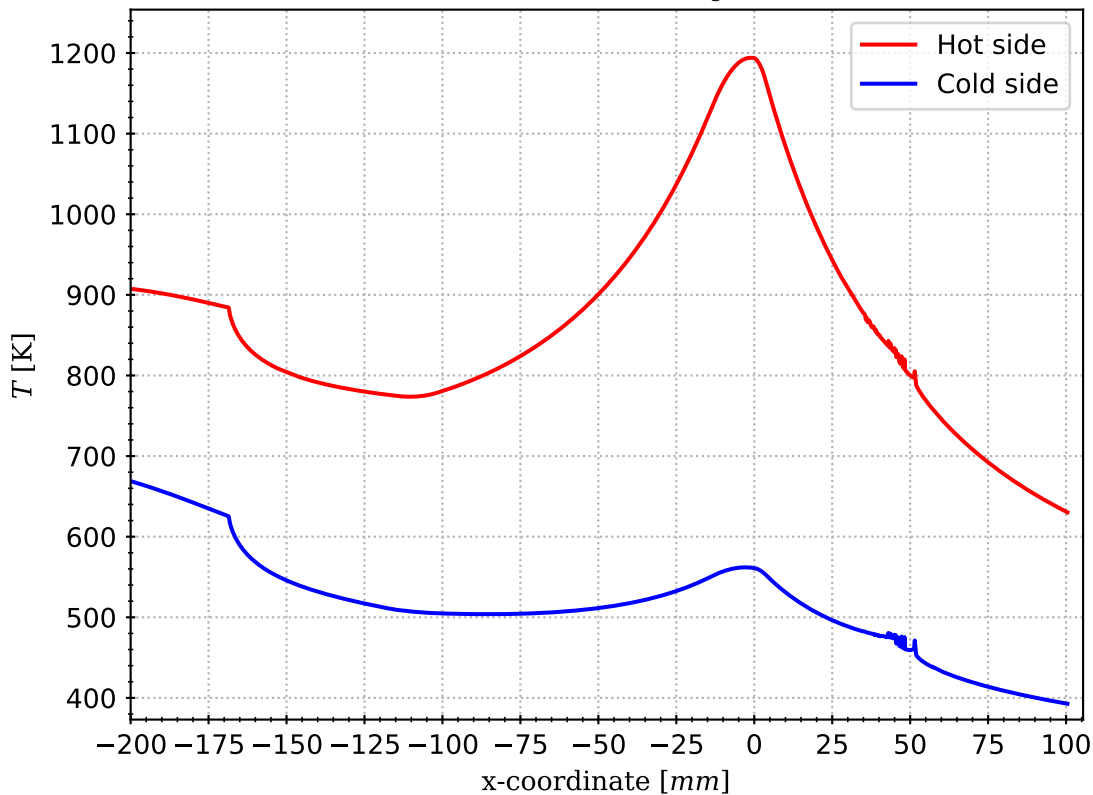




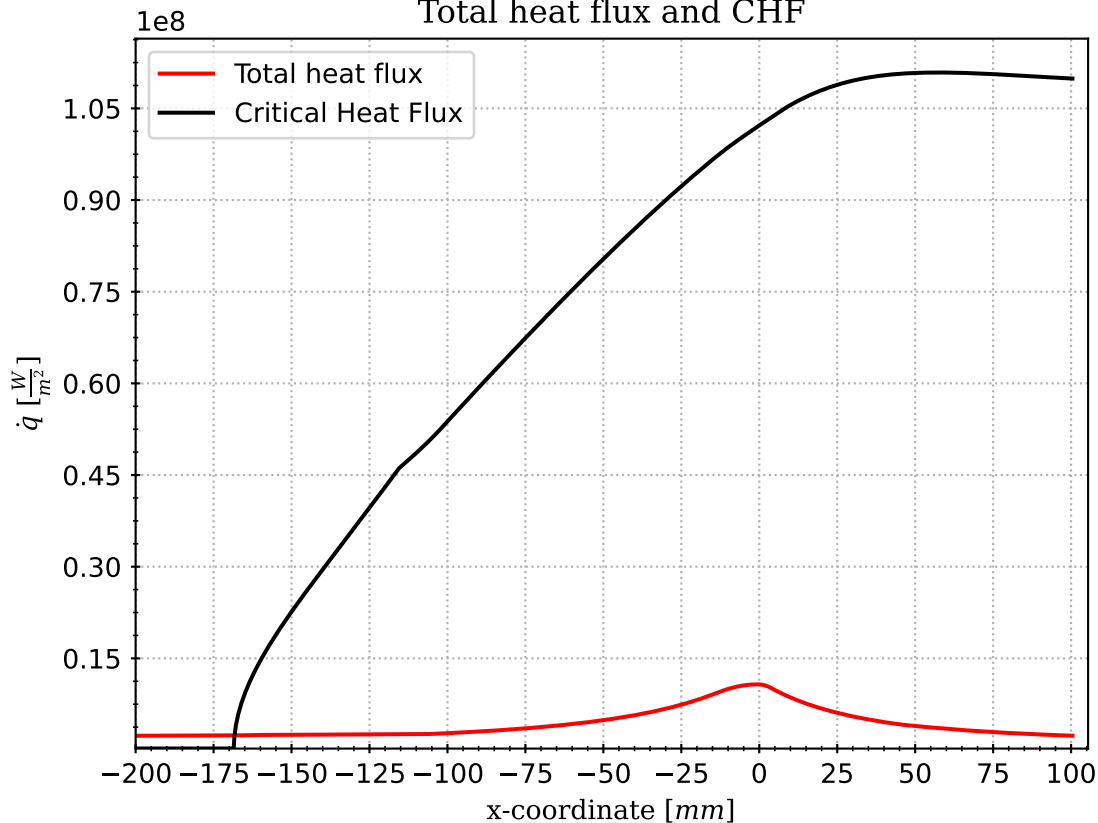
Cold-side convective coefficient h_l



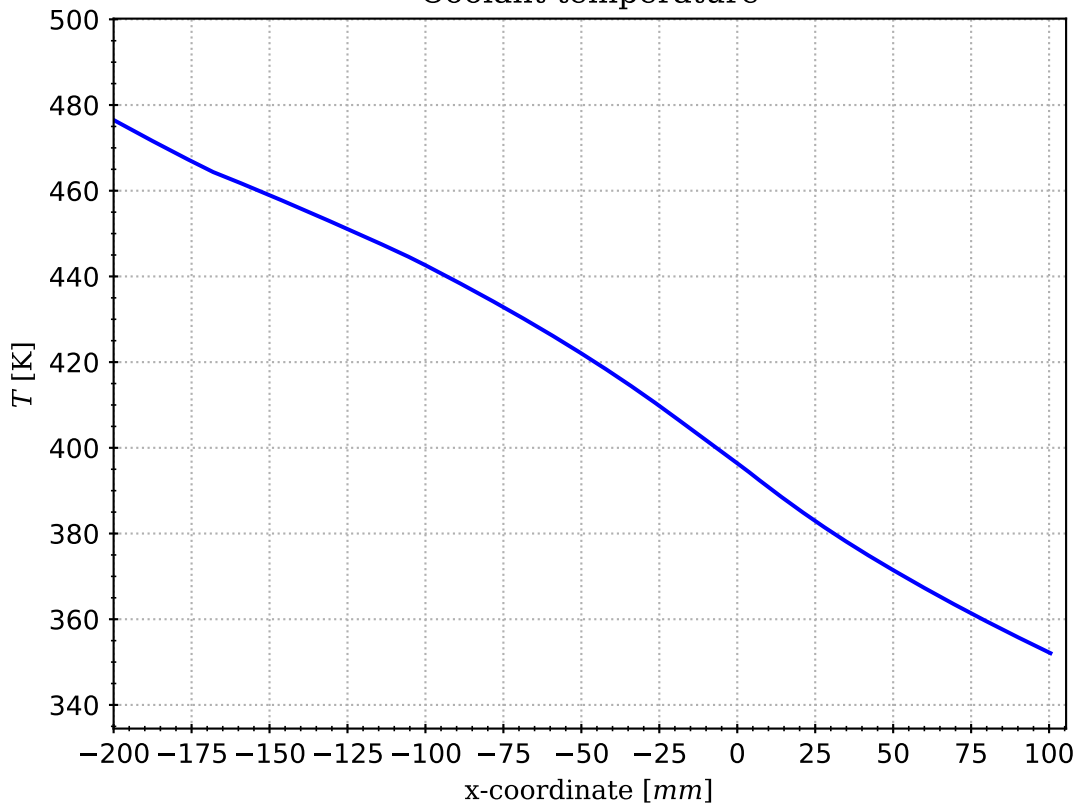
Wall temperatures T_{wg} and T_{wl}

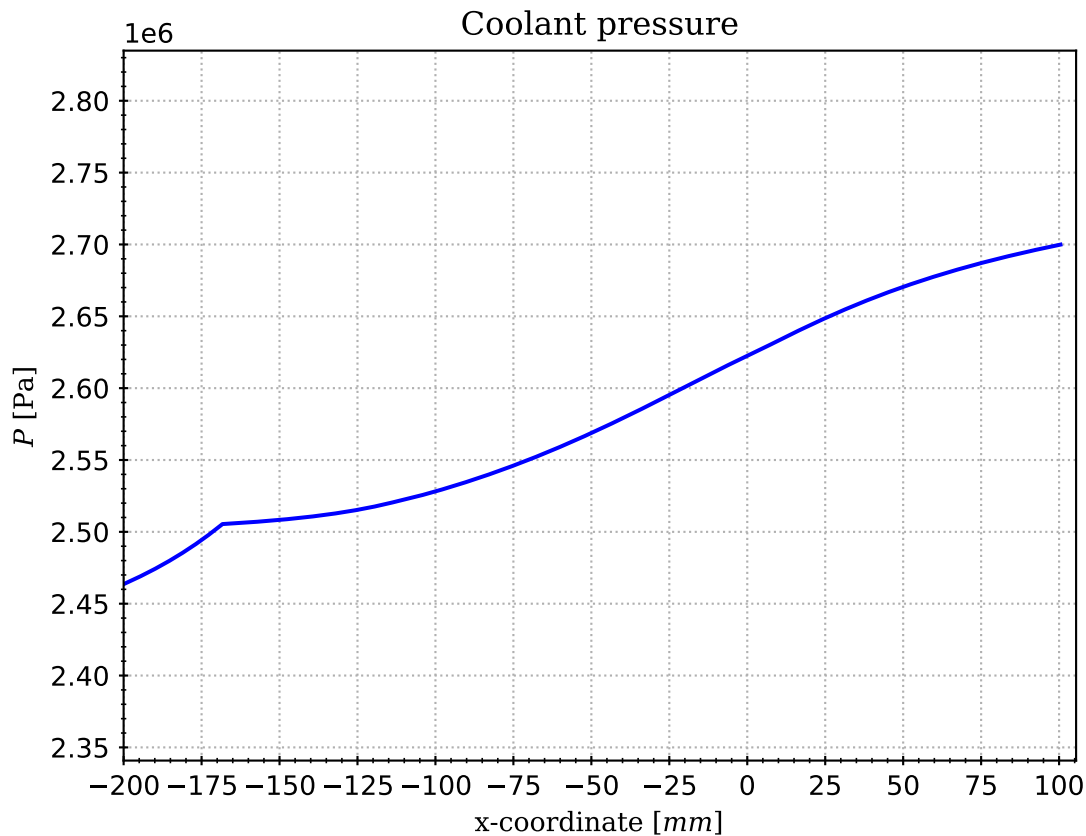


Total heat flux and CHF

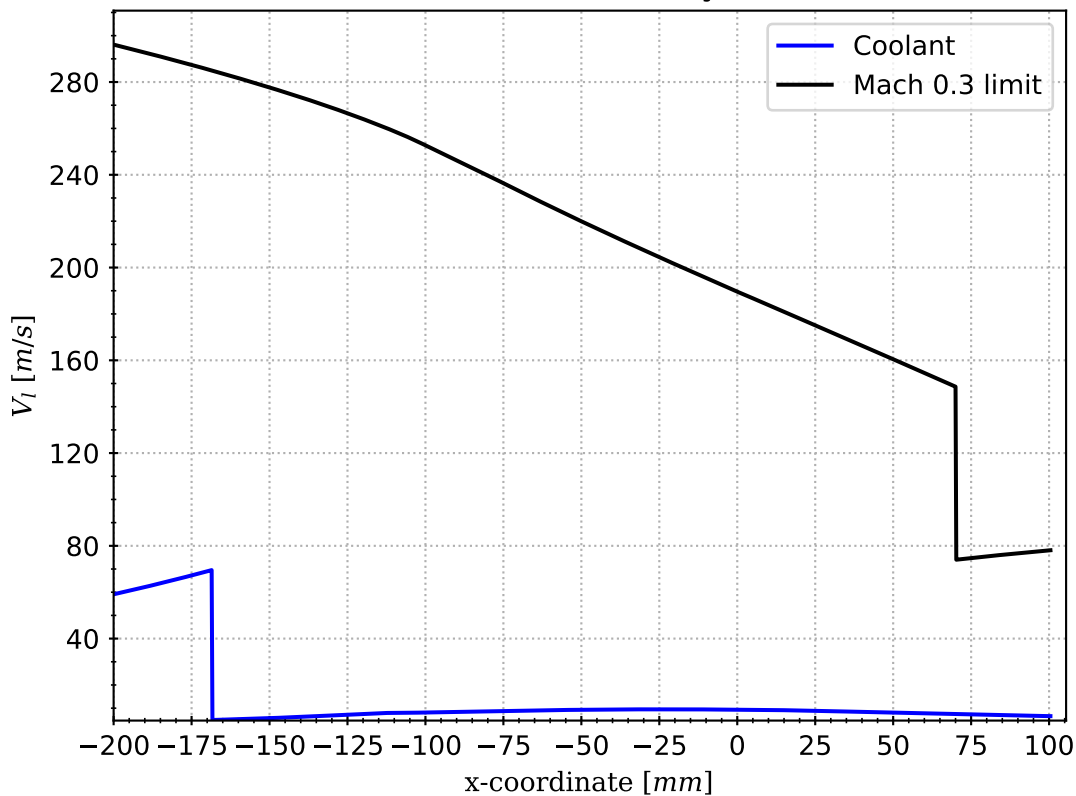


Coolant temperature

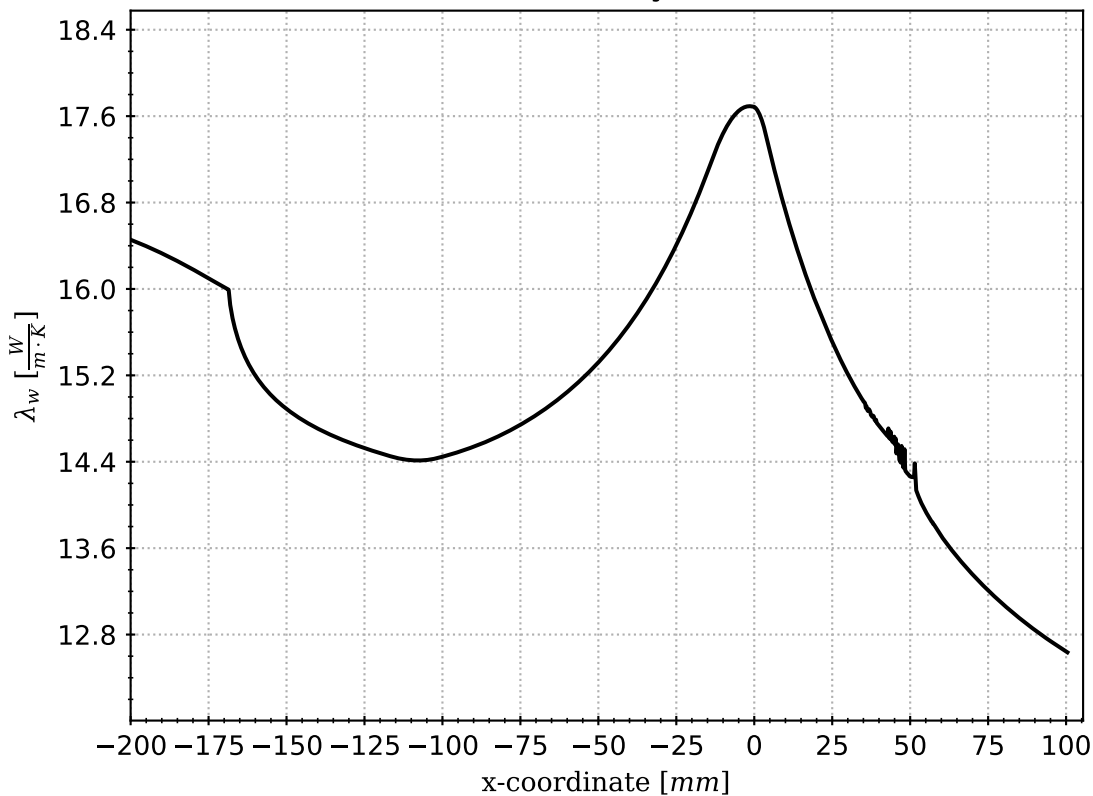




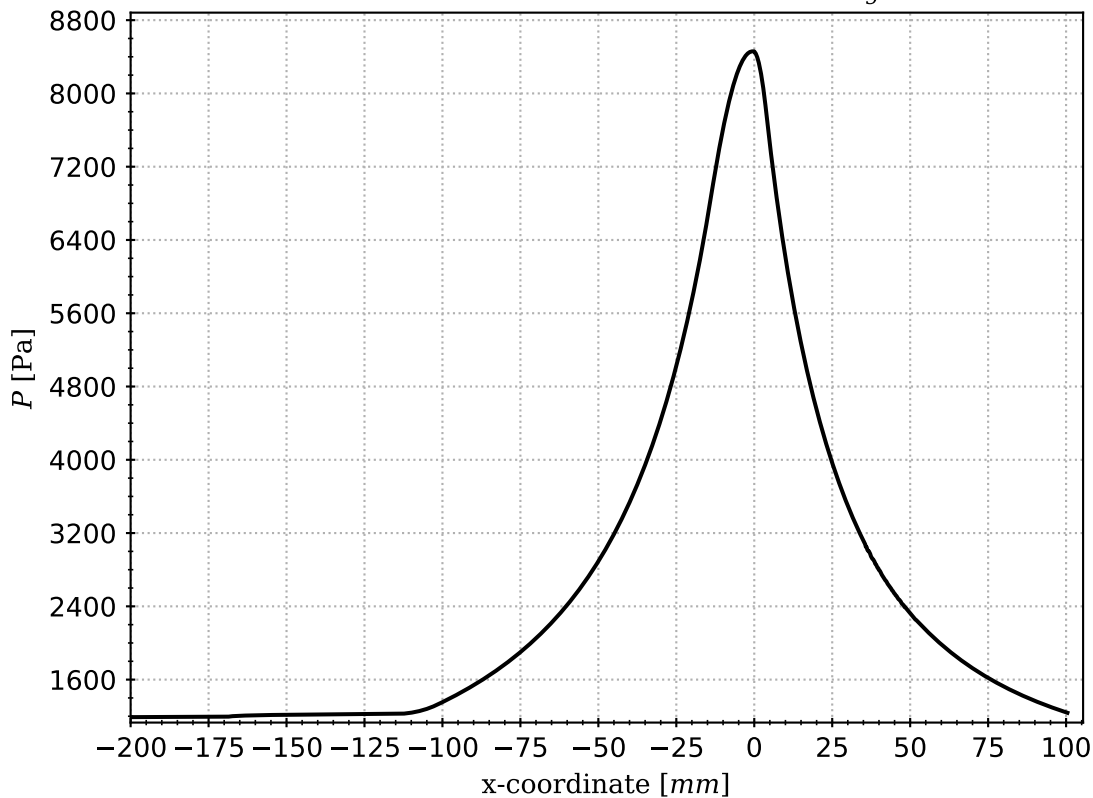
Coolant velocity



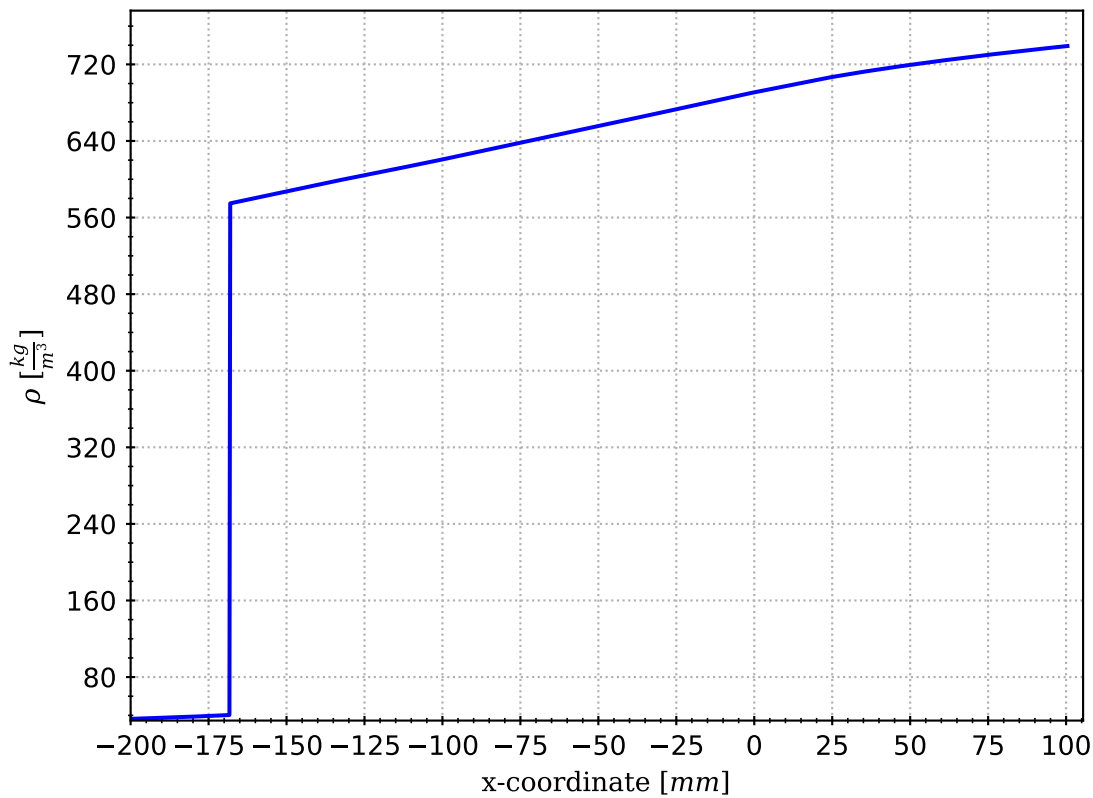
Wall conductivity (inconel)



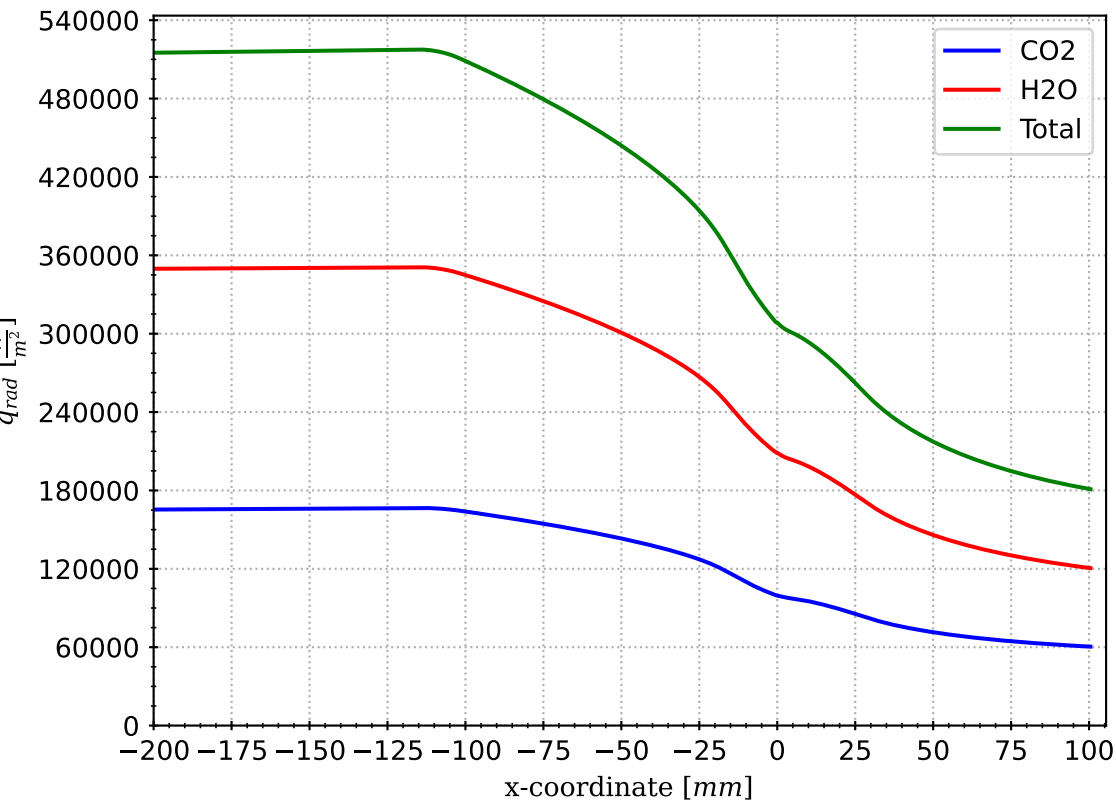
Hot-side convection coefficient h_g



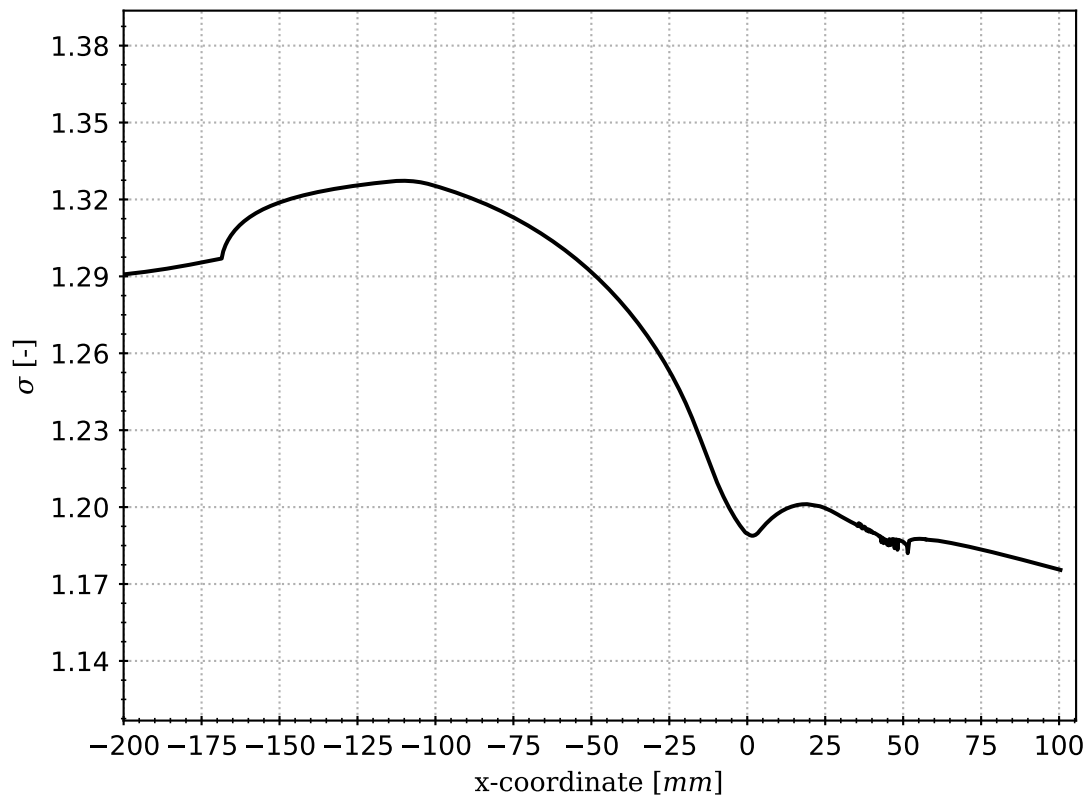
Coolant density ρ

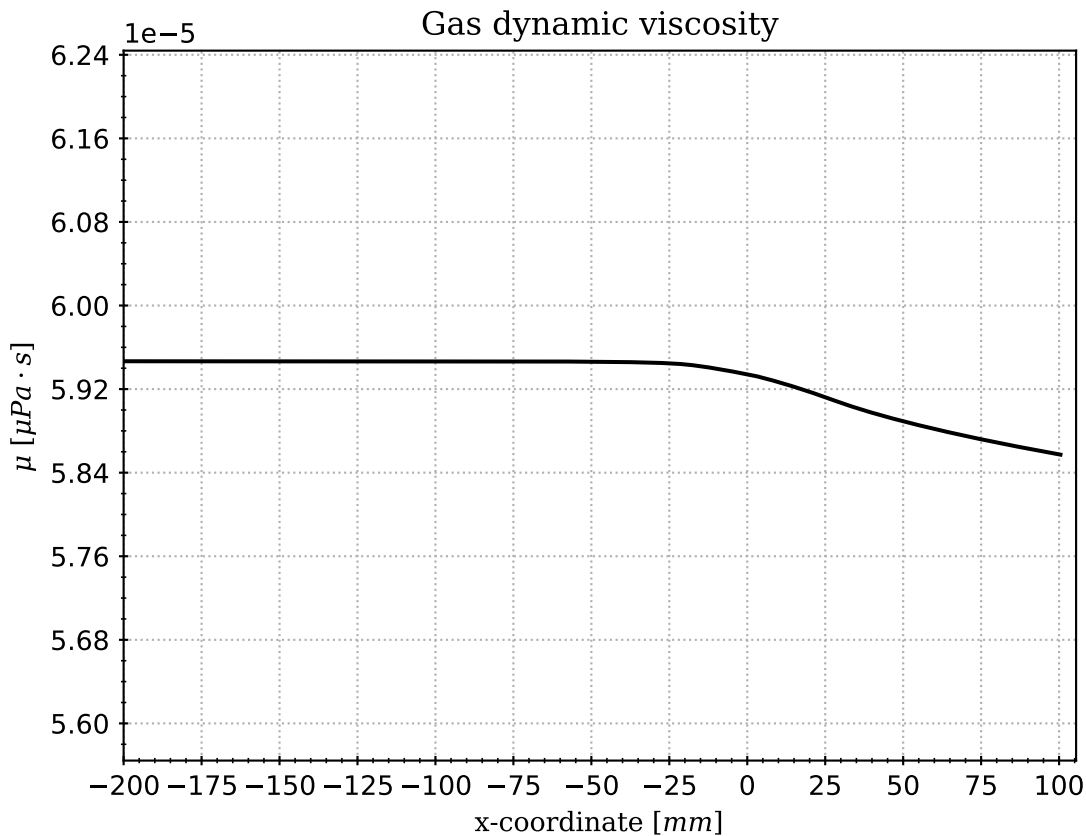


Radiative heat flux

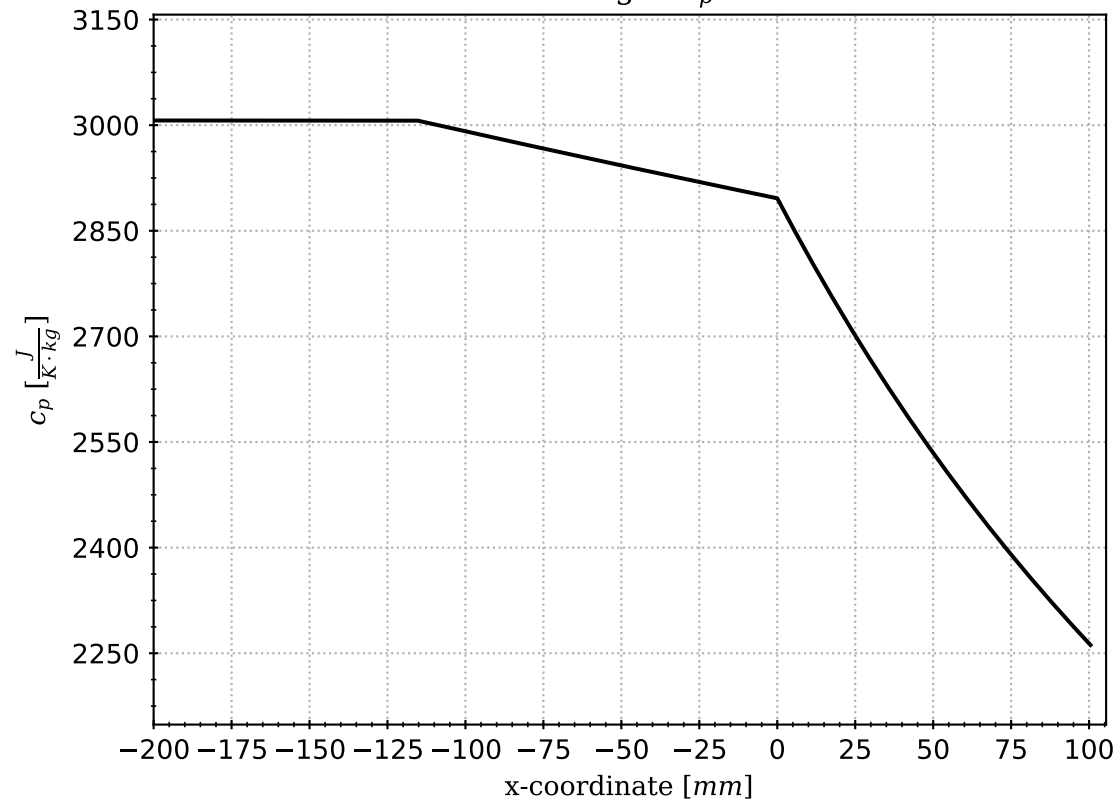


Bartz equation coefficient σ

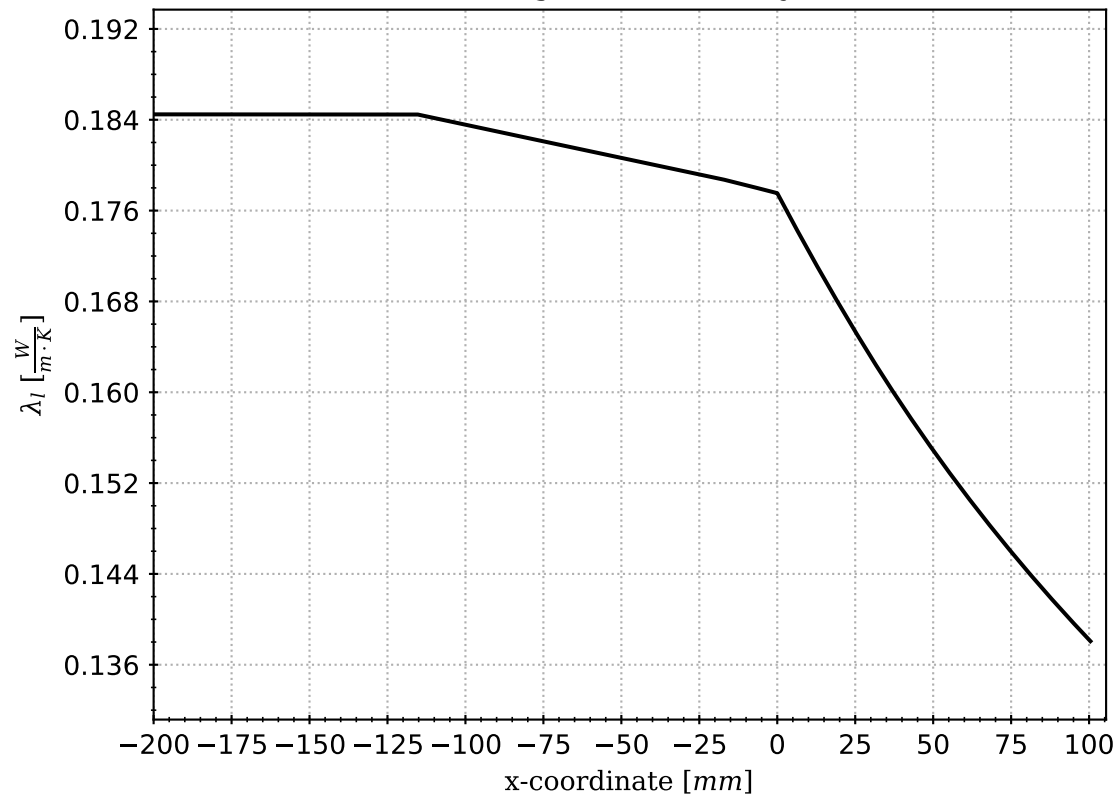




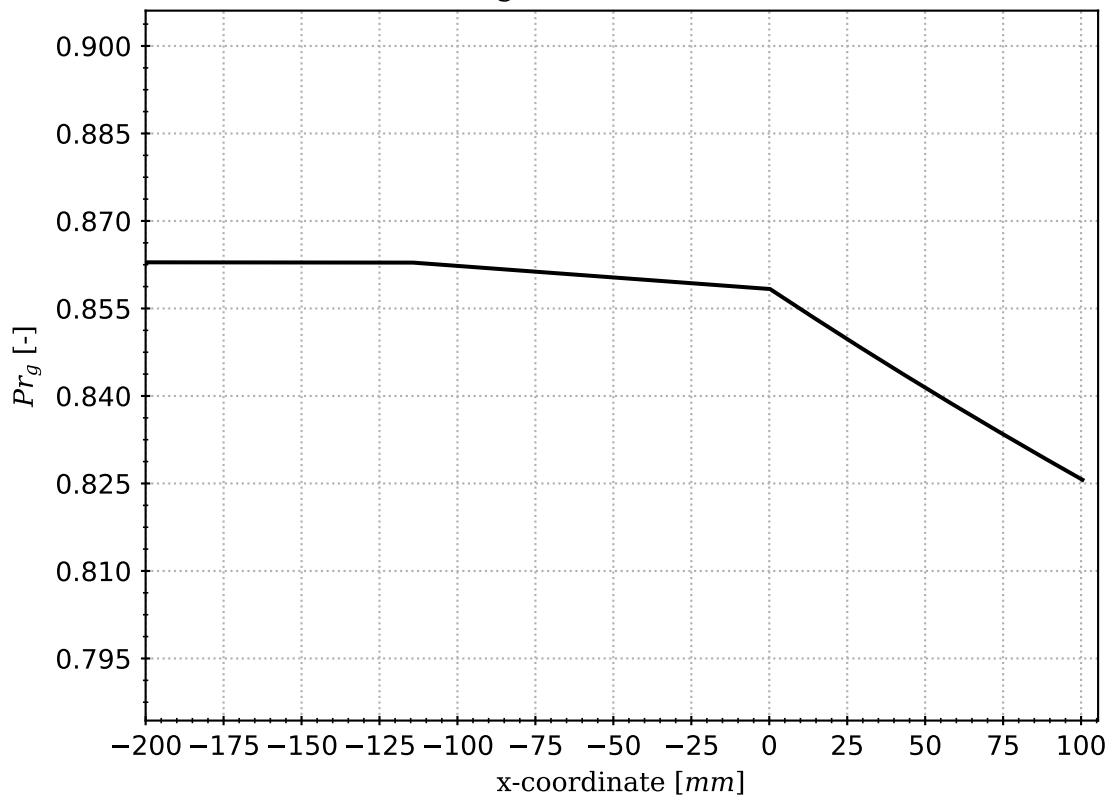
Hot gas c_p



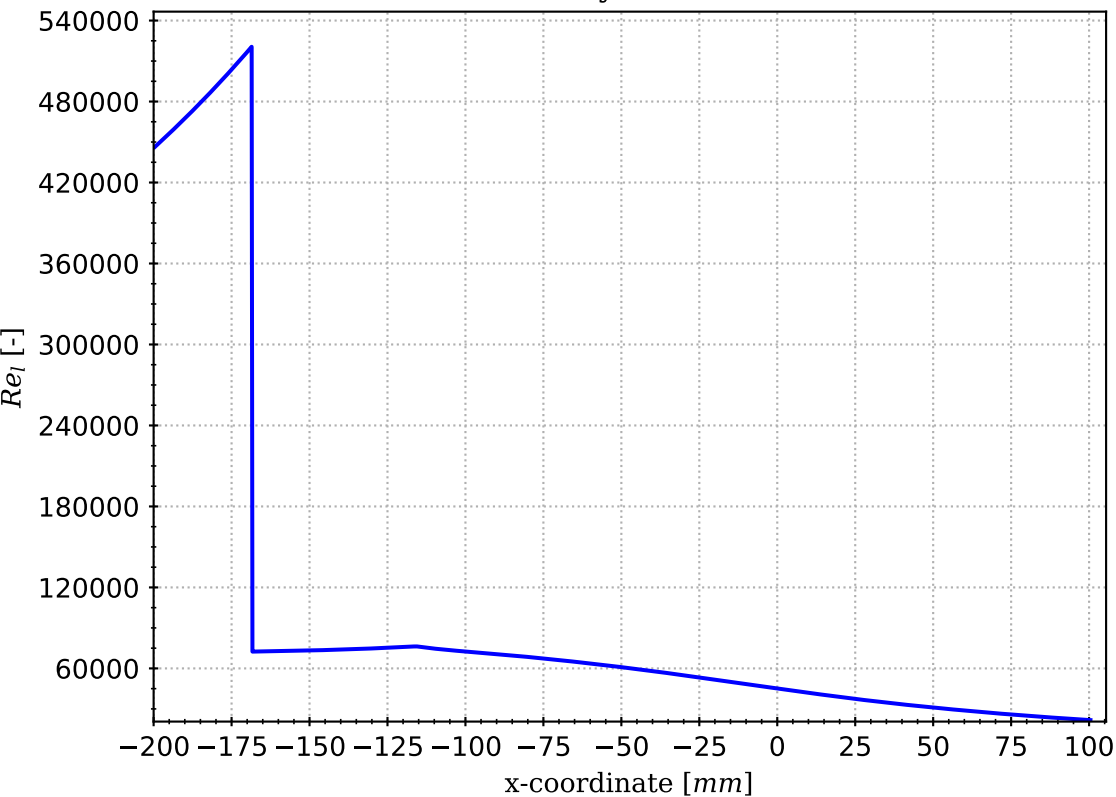
Hot gas conductivity



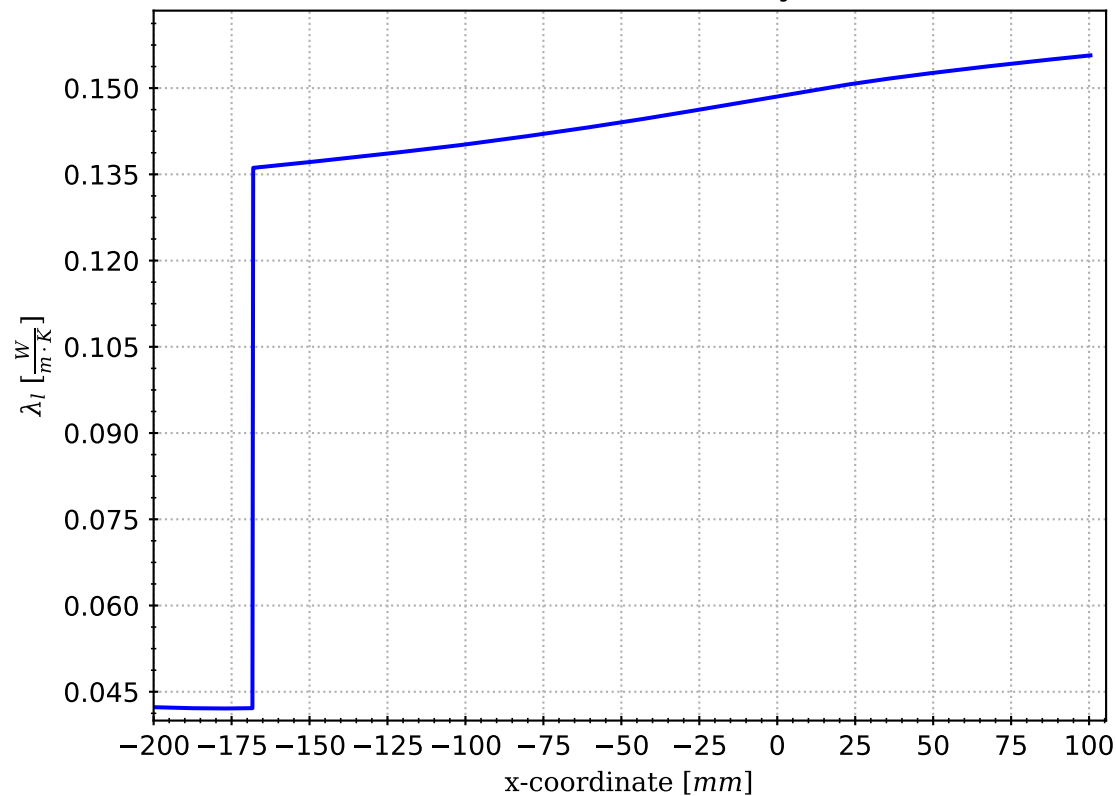
Hot gas Prandtl number

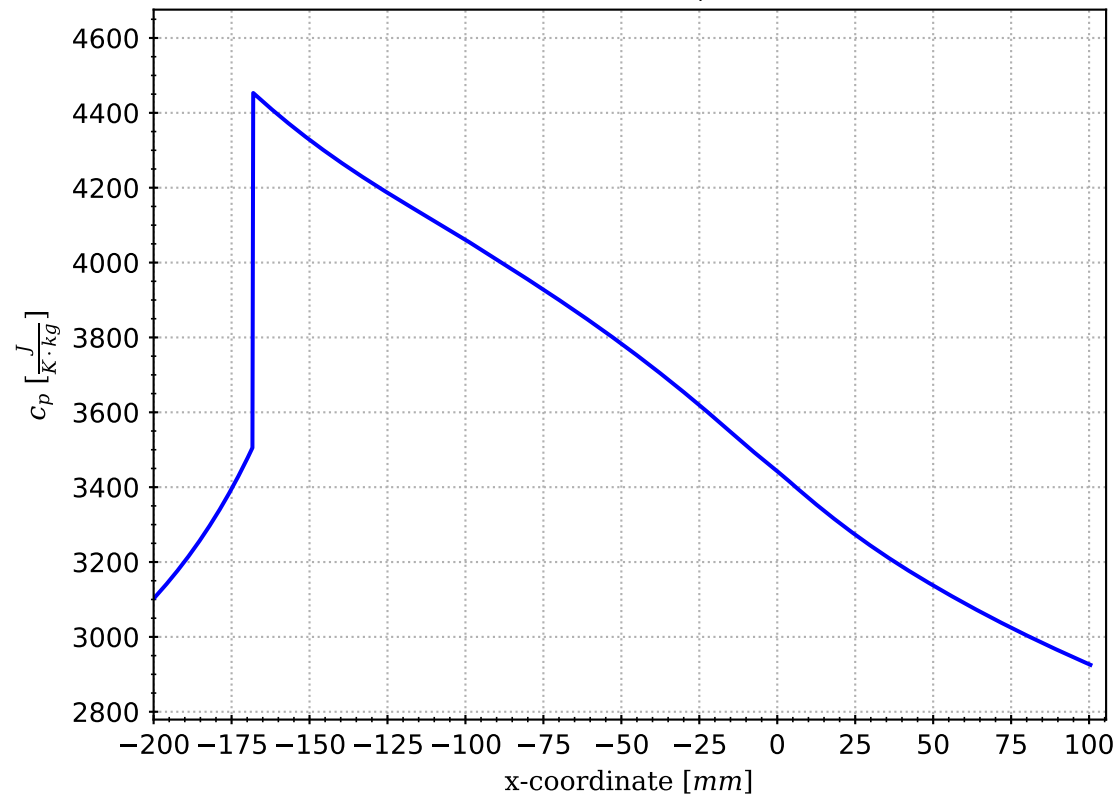


Coolant Reynolds number

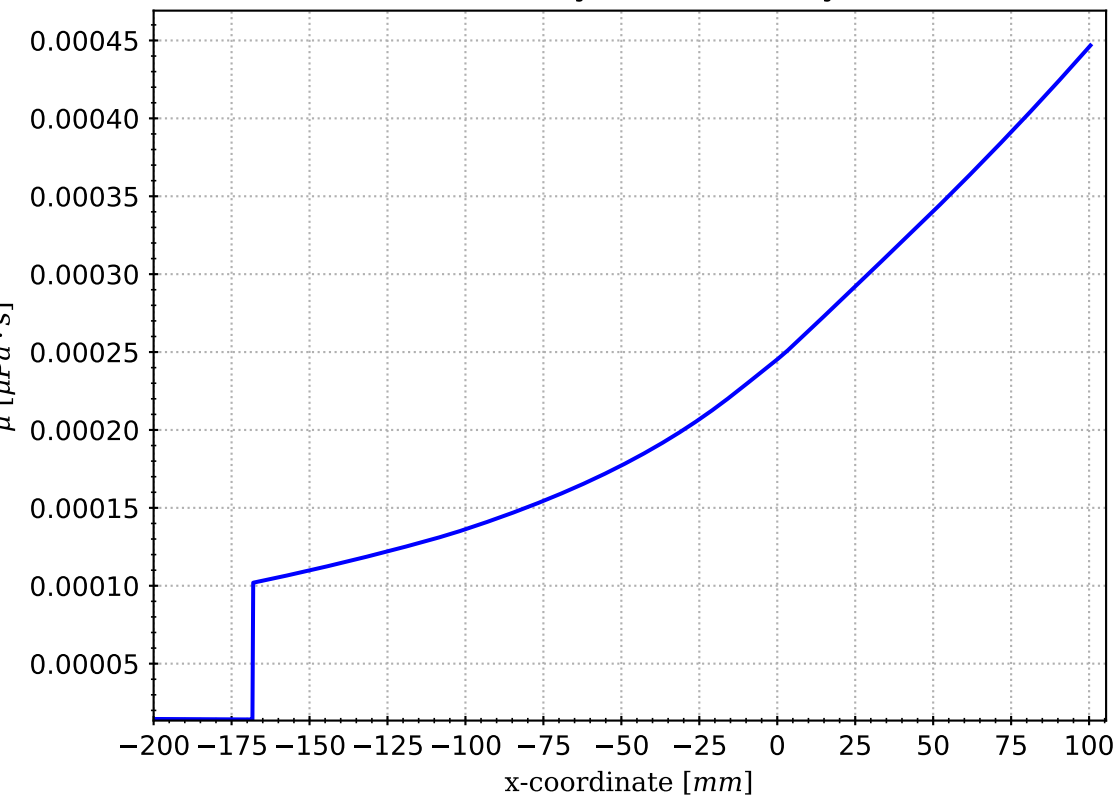


Coolant conductivity



Coolant c_p 

Coolant dynamic viscosity



Coolant Prandtl number

