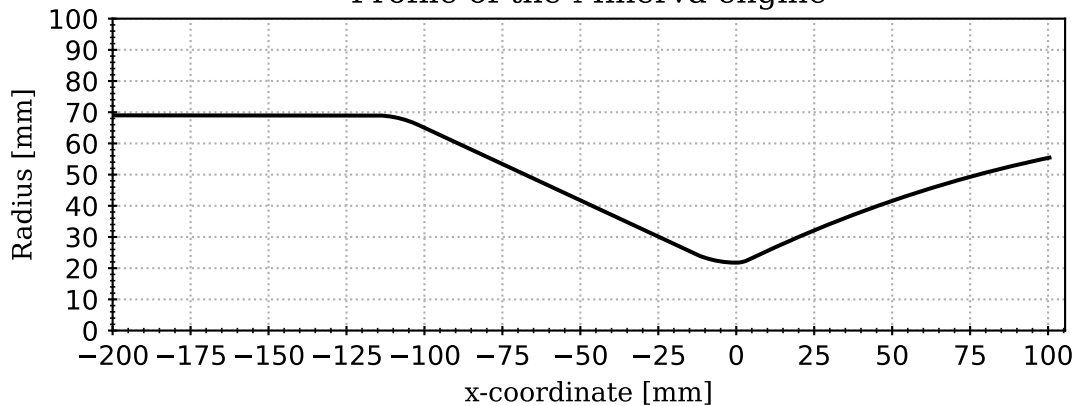
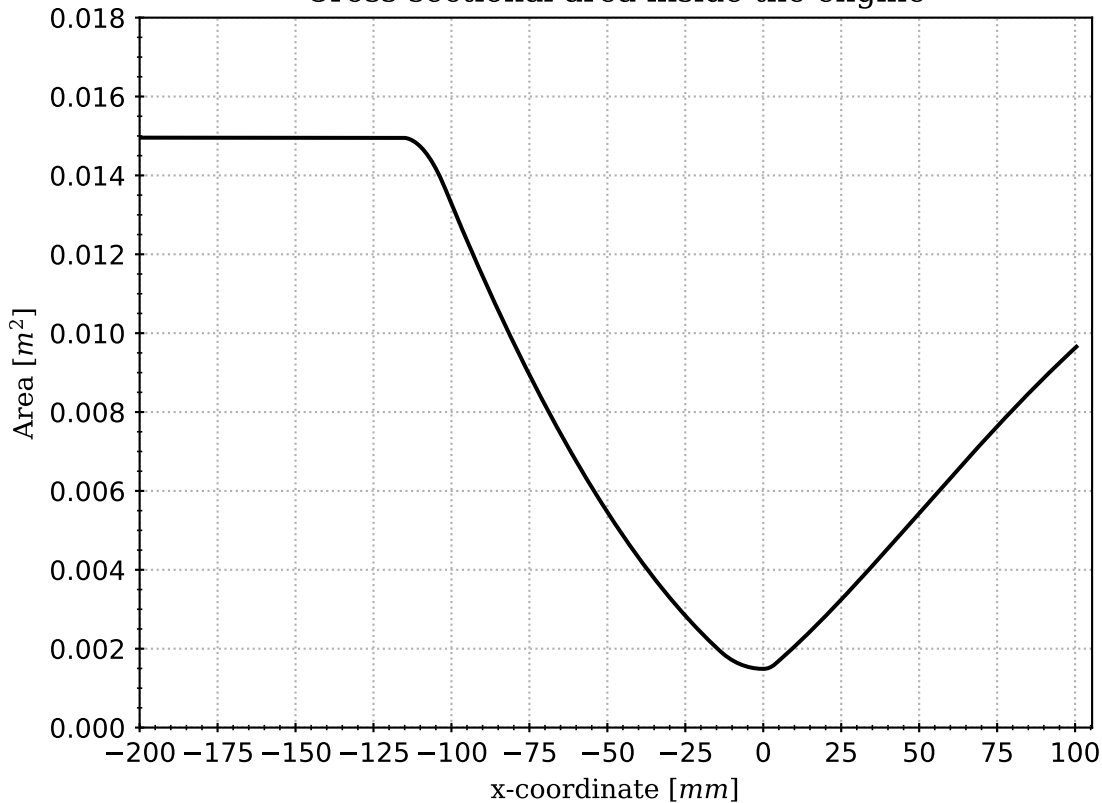


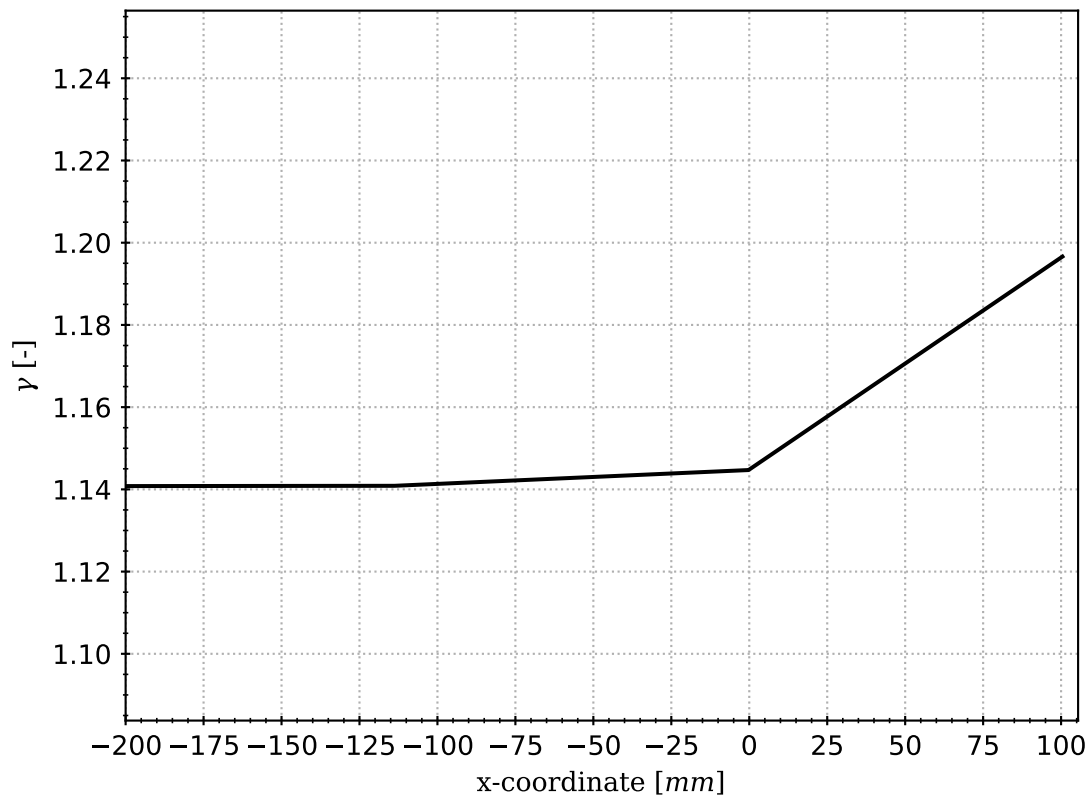
Profile of the Minerva engine



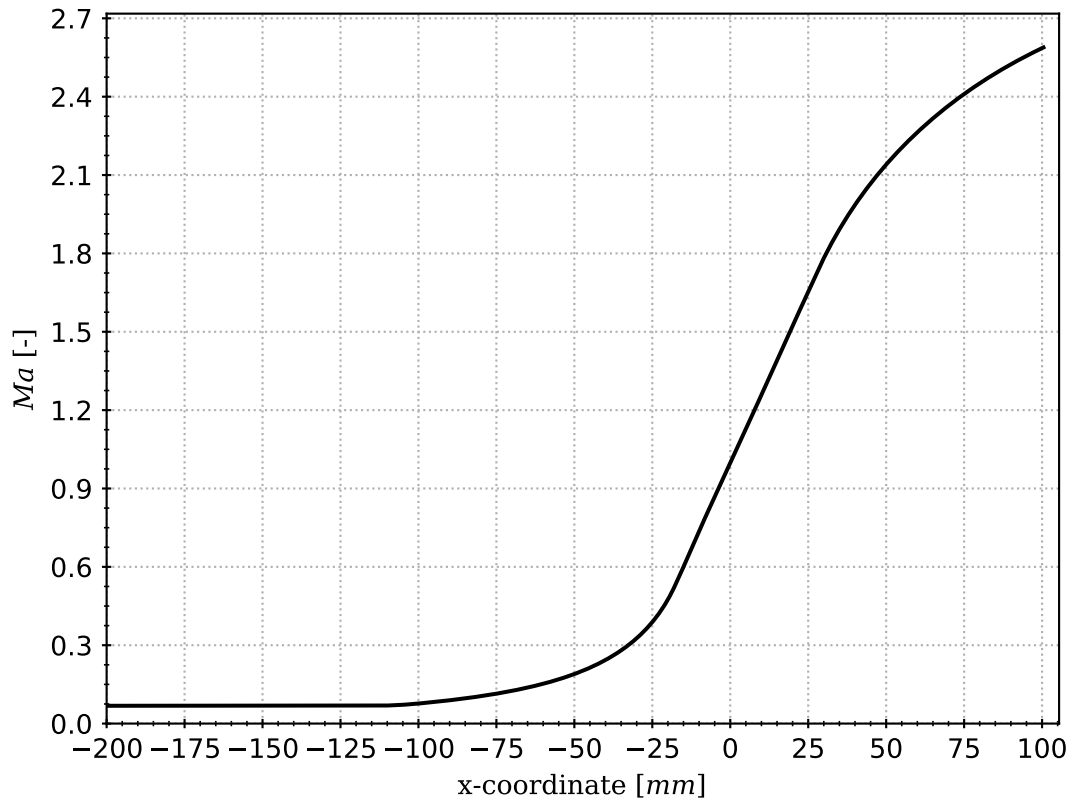
Cross-sectional area inside the engine

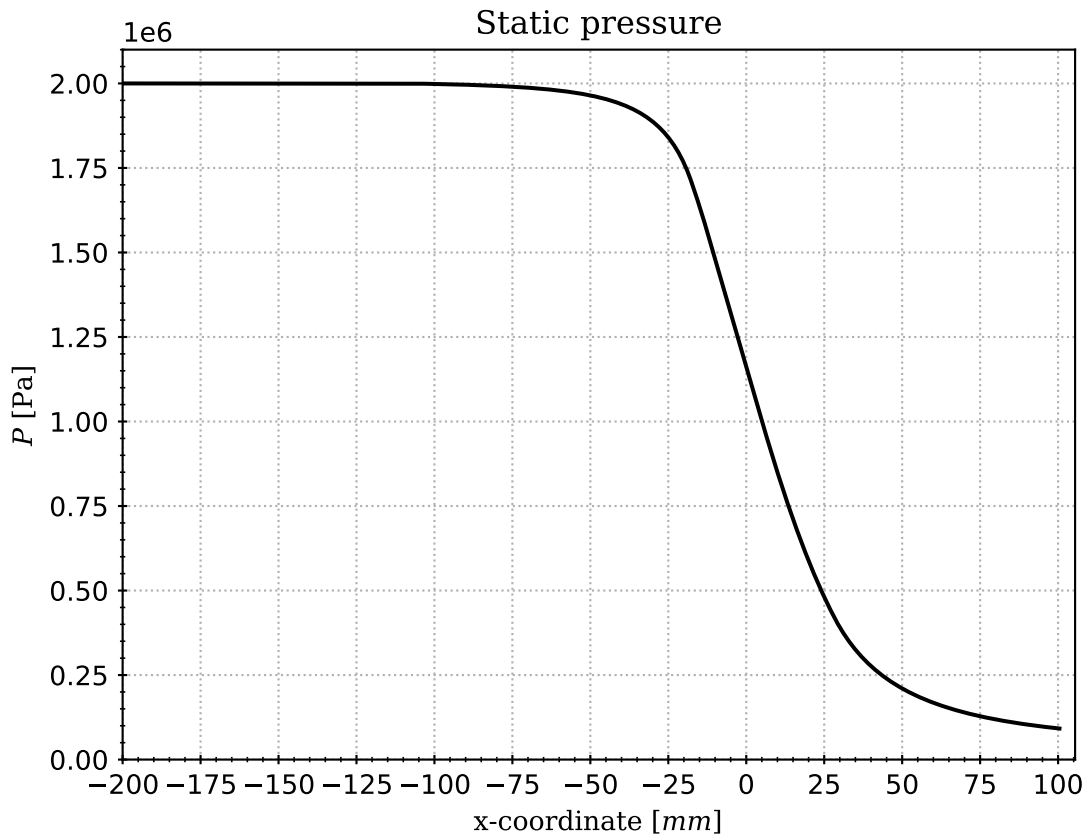


Adiabatic constant γ of the combustion gases

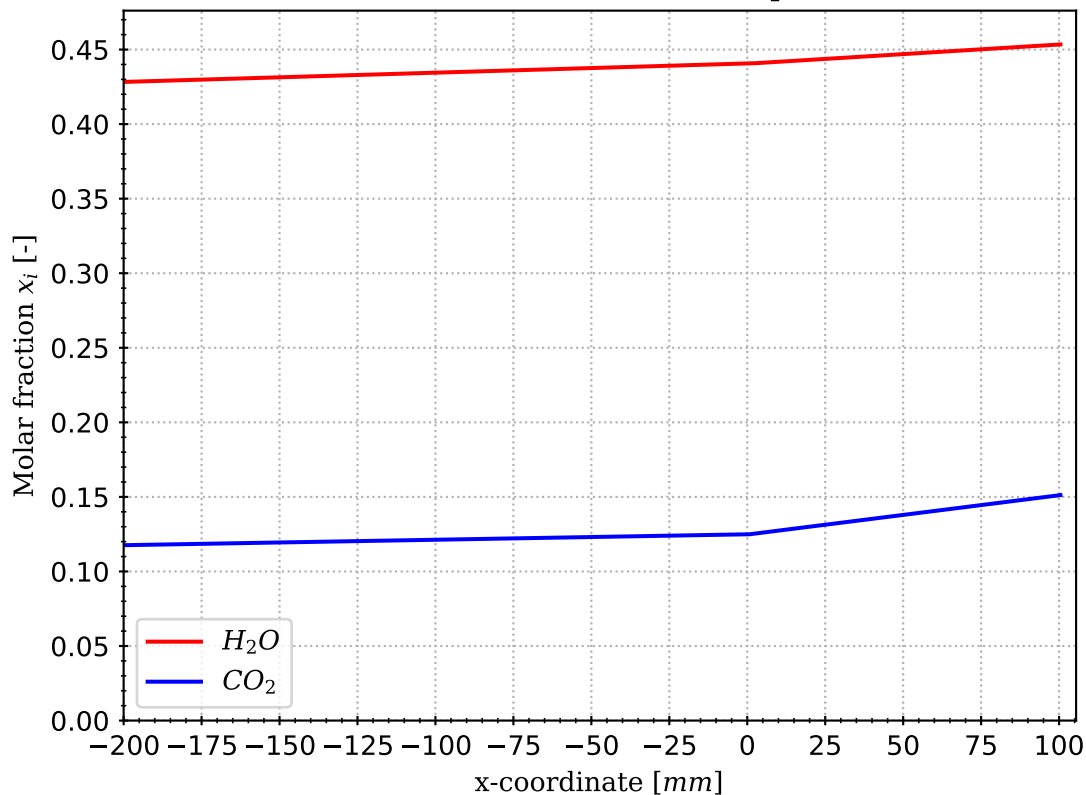


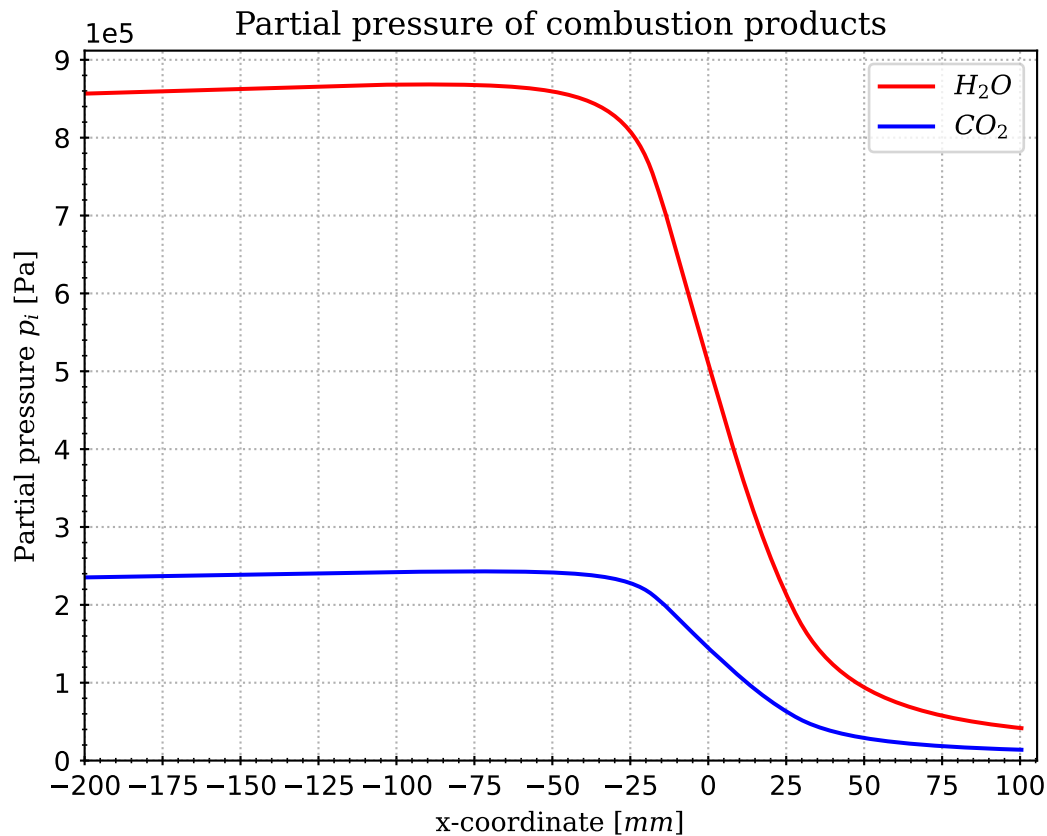
Mach number



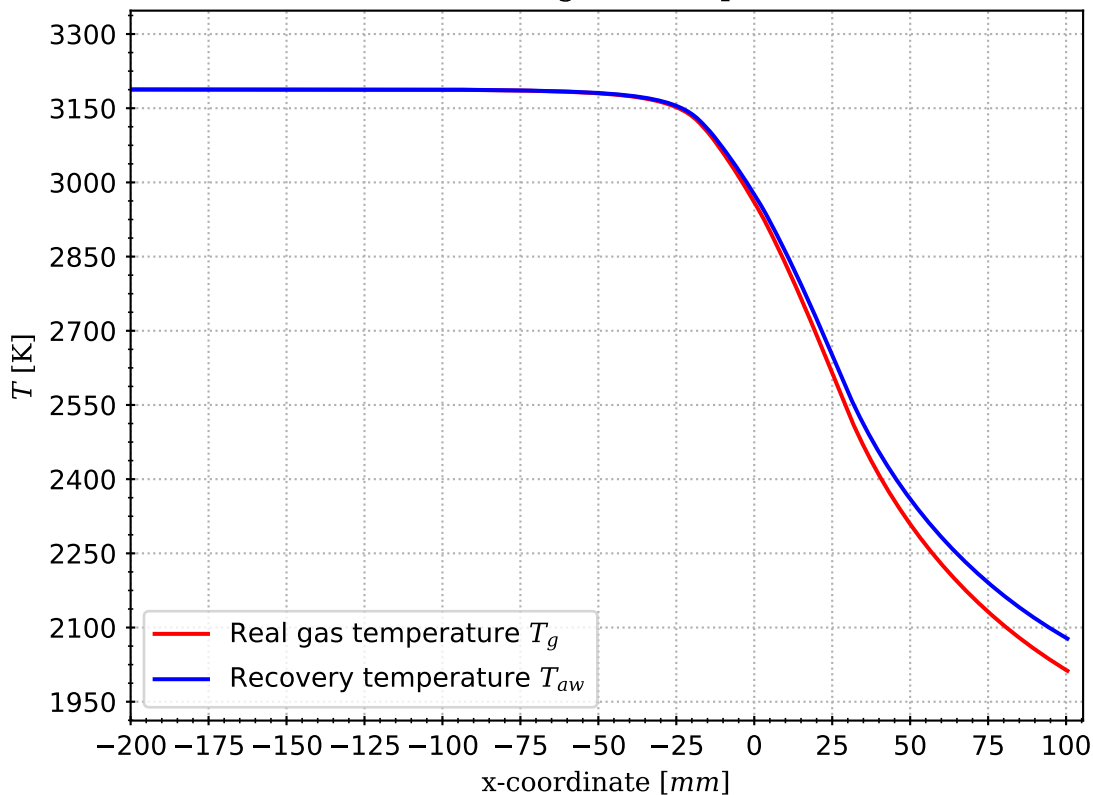


Molar fraction of combustion products

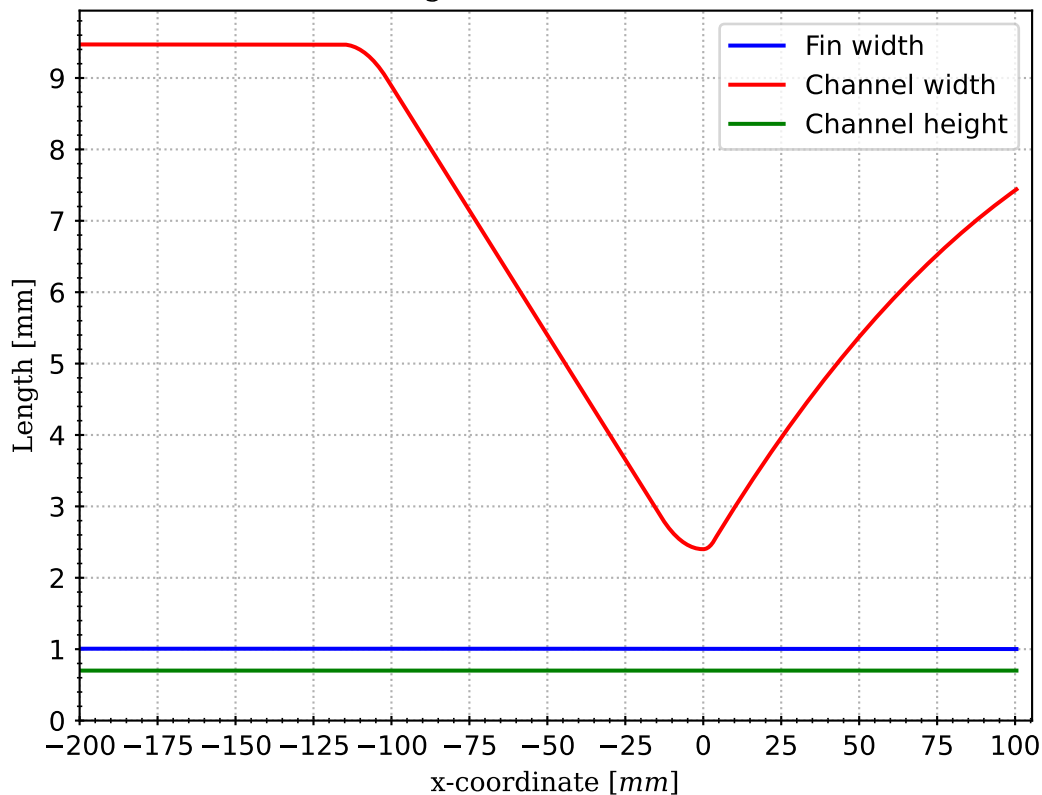




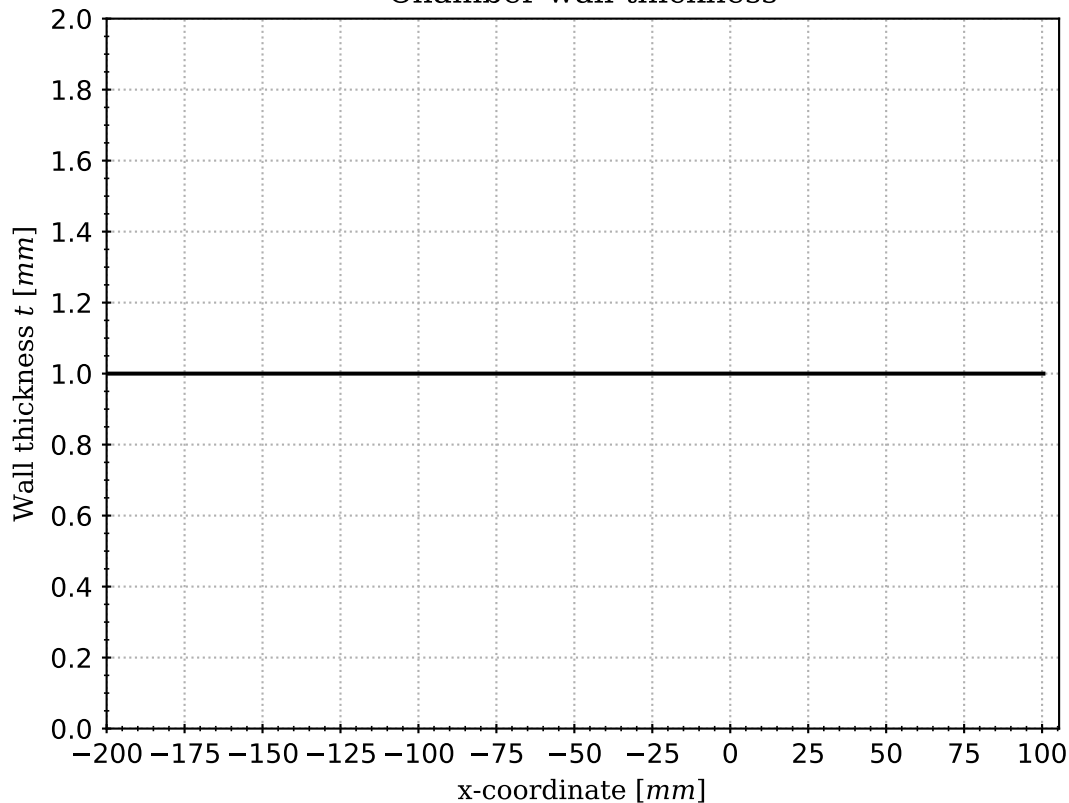
Combustion gases temperature



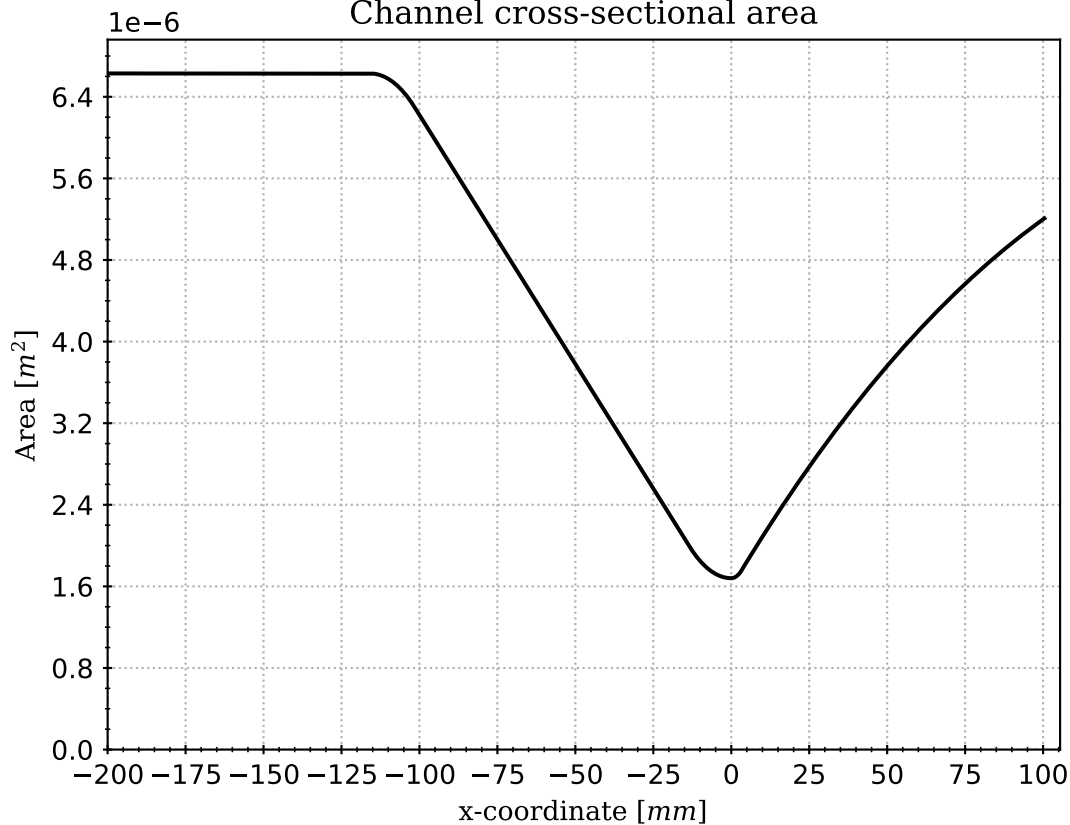
Cooling channels dimensions



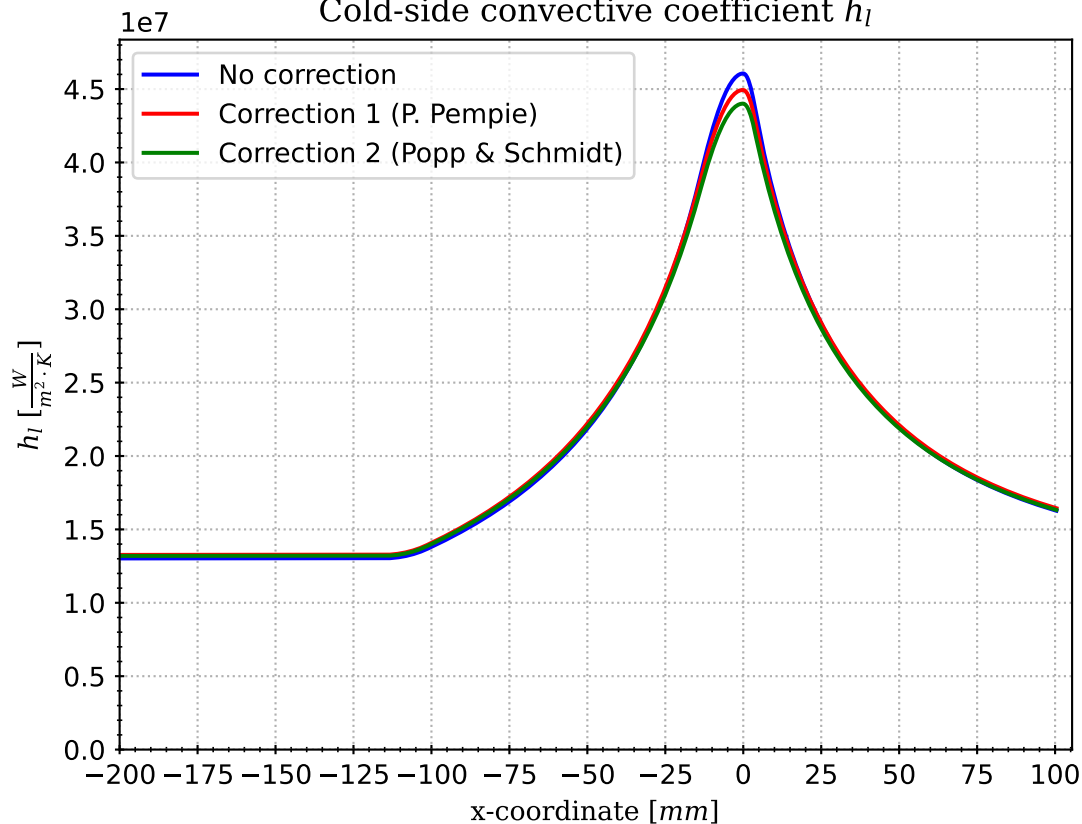
Chamber wall thickness



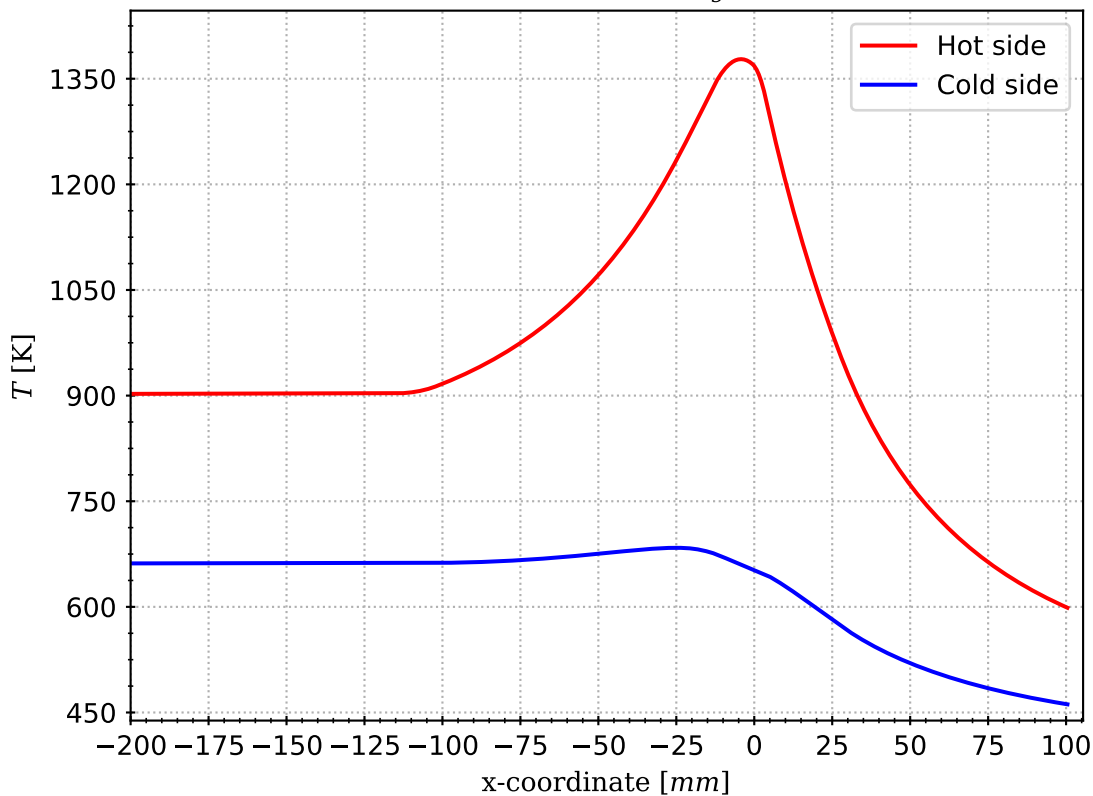
Channel cross-sectional area

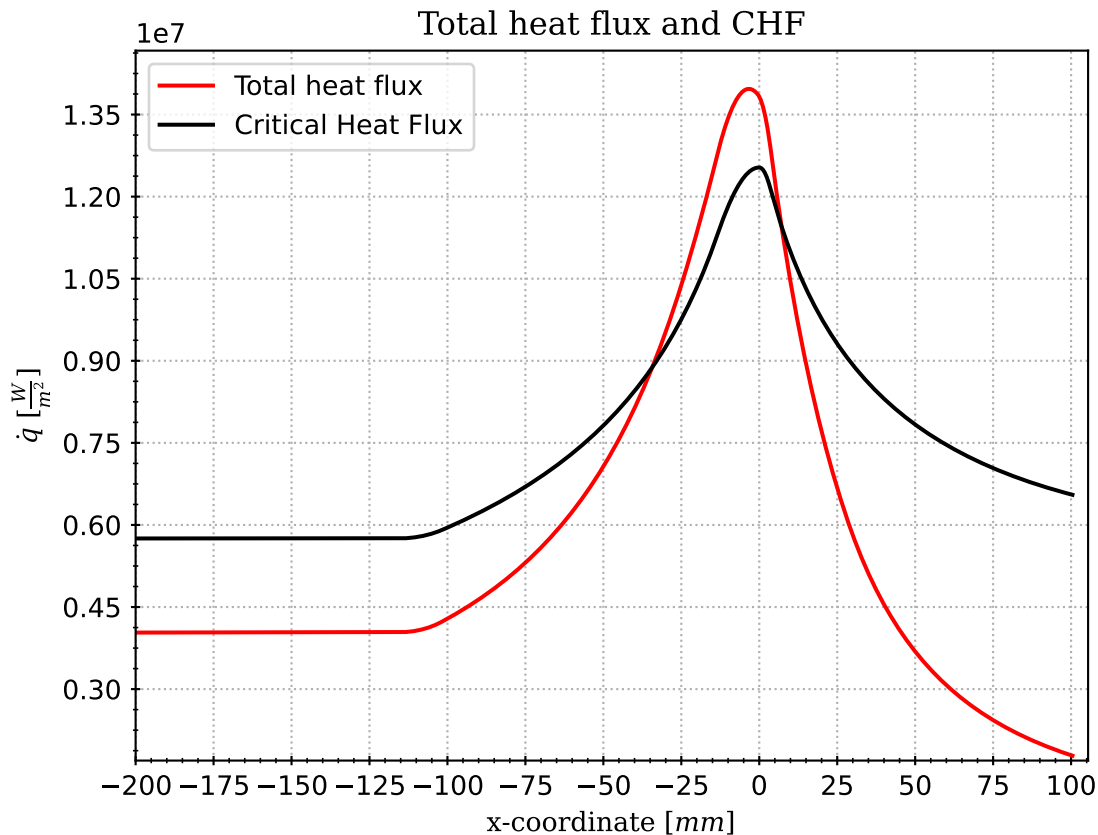


Cold-side convective coefficient h_l

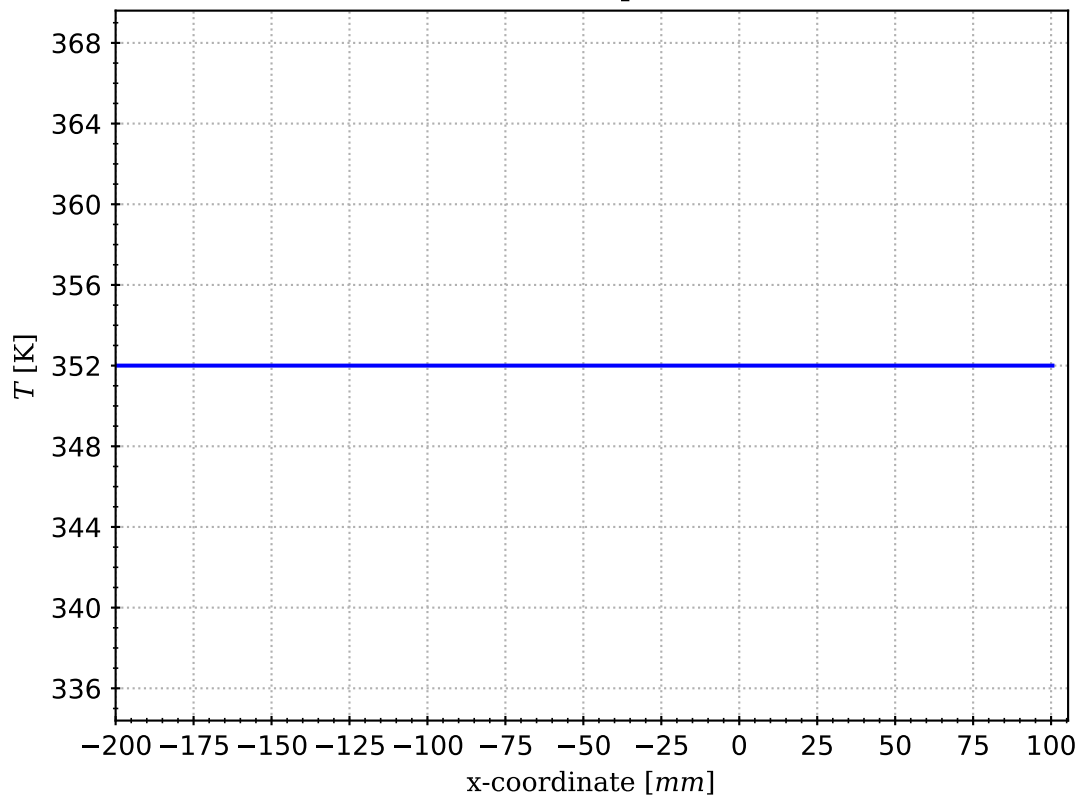


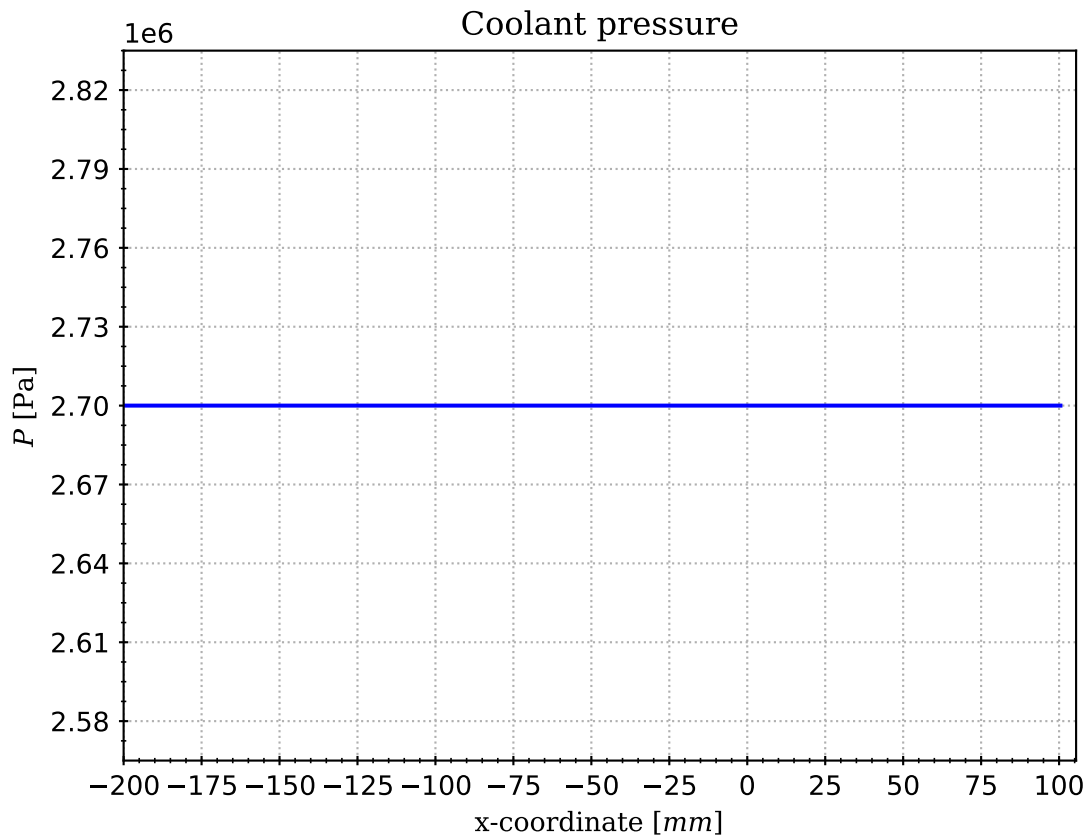
Wall temperatures T_{wg} and T_{wl}



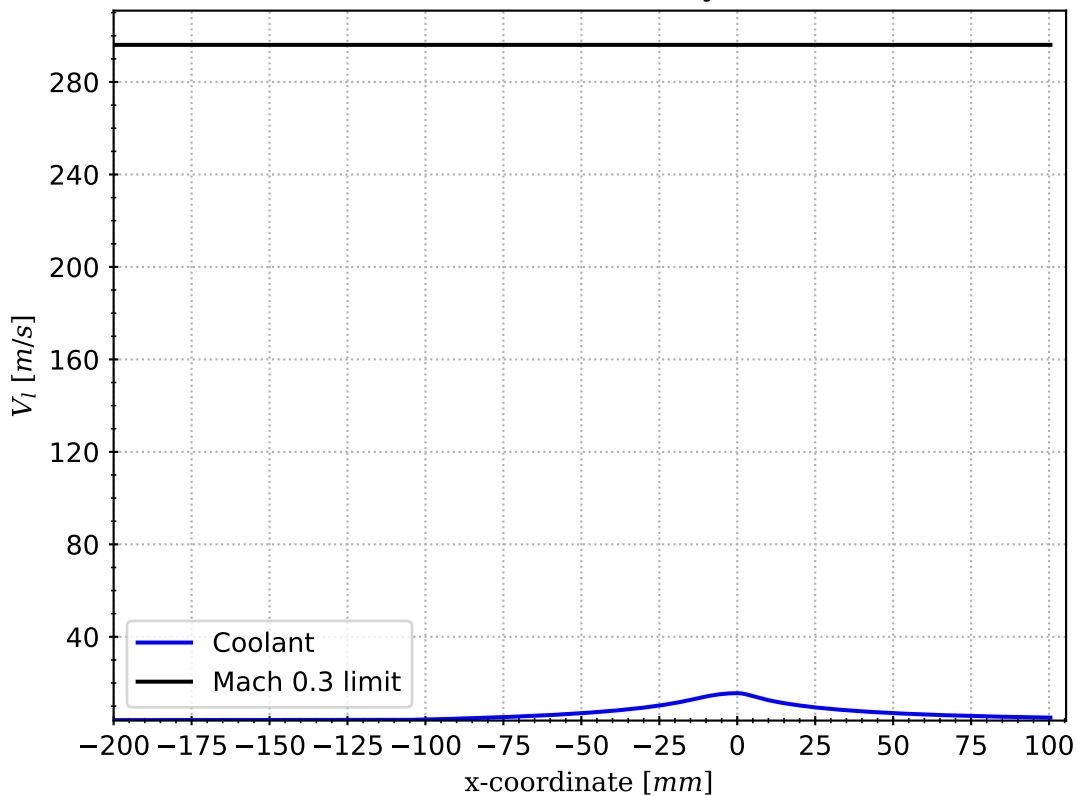


Coolant temperature

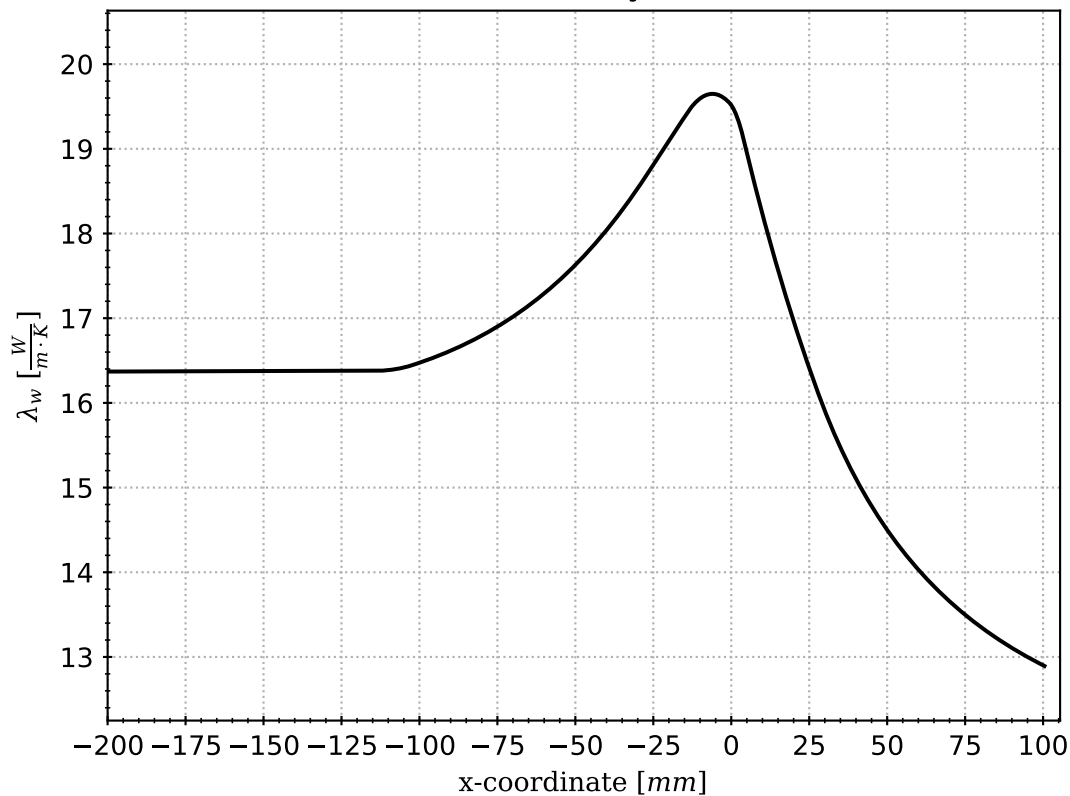




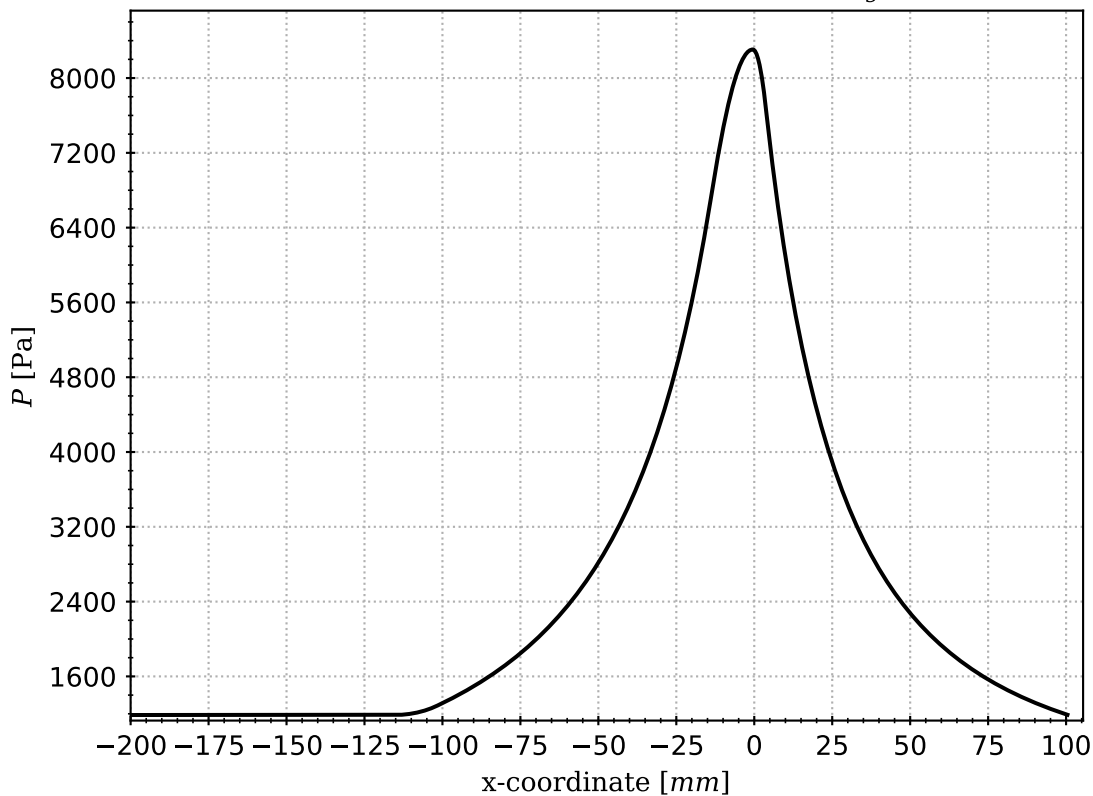
Coolant velocity



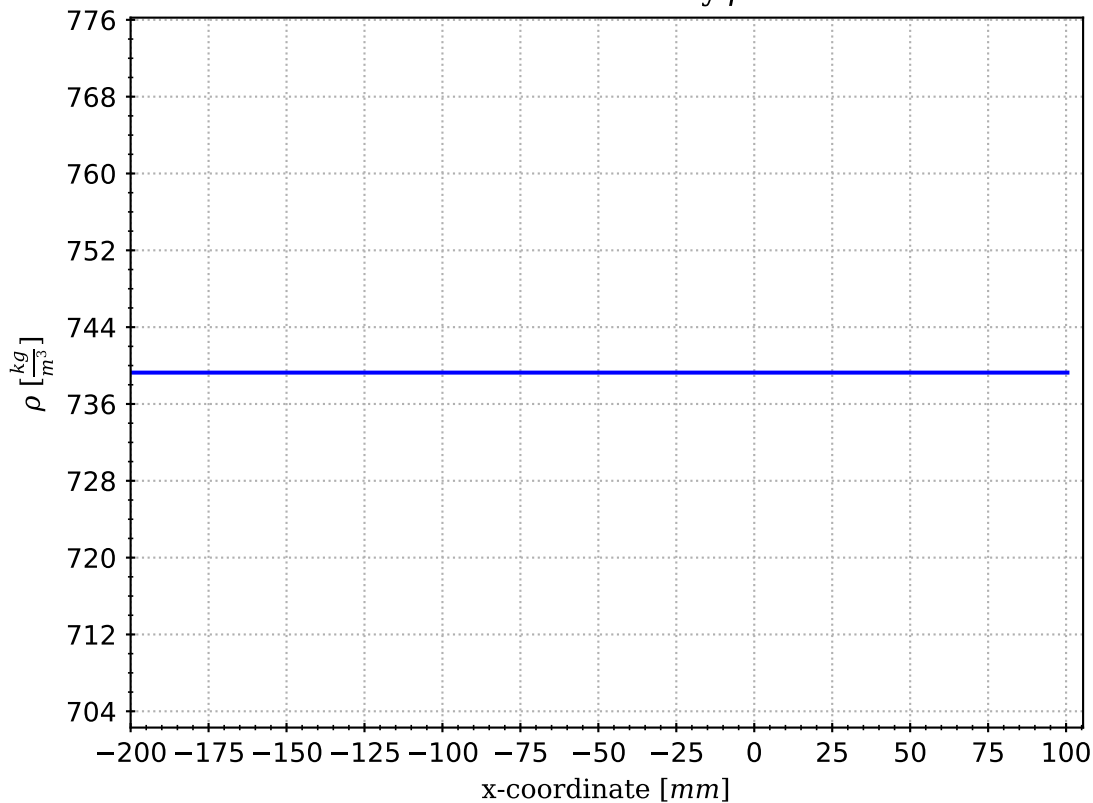
Wall conductivity (inconel)

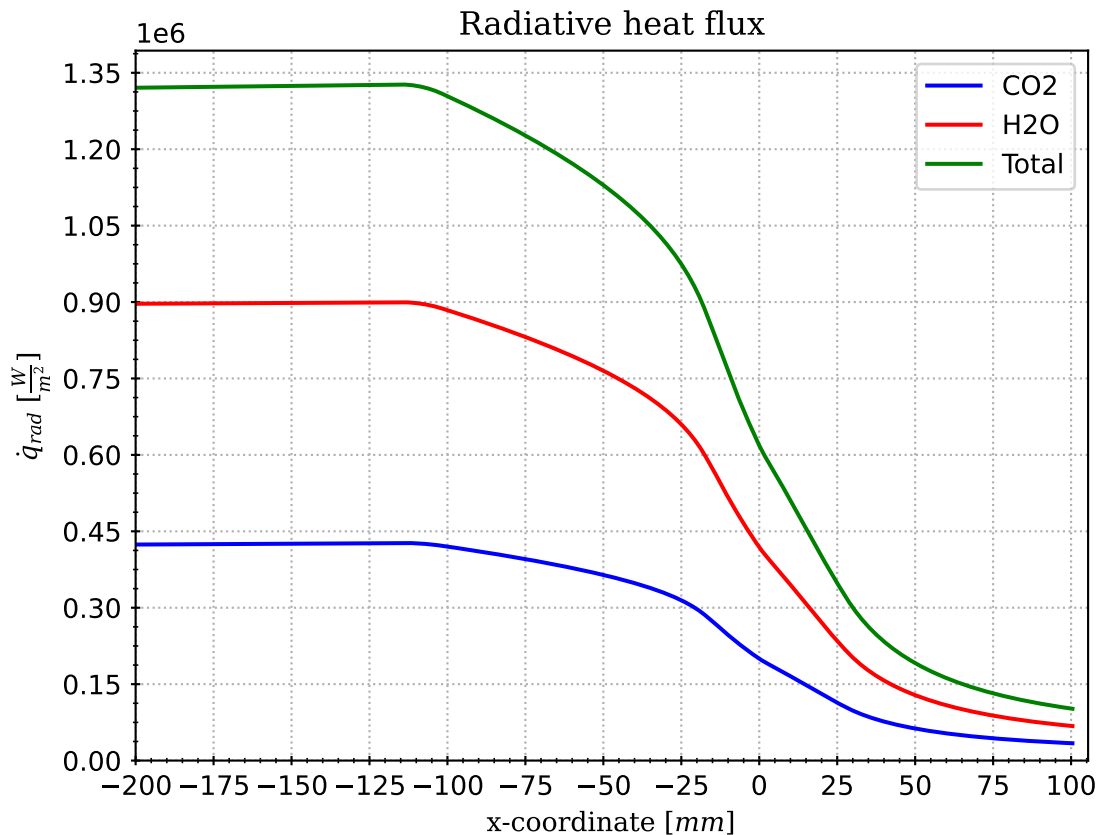


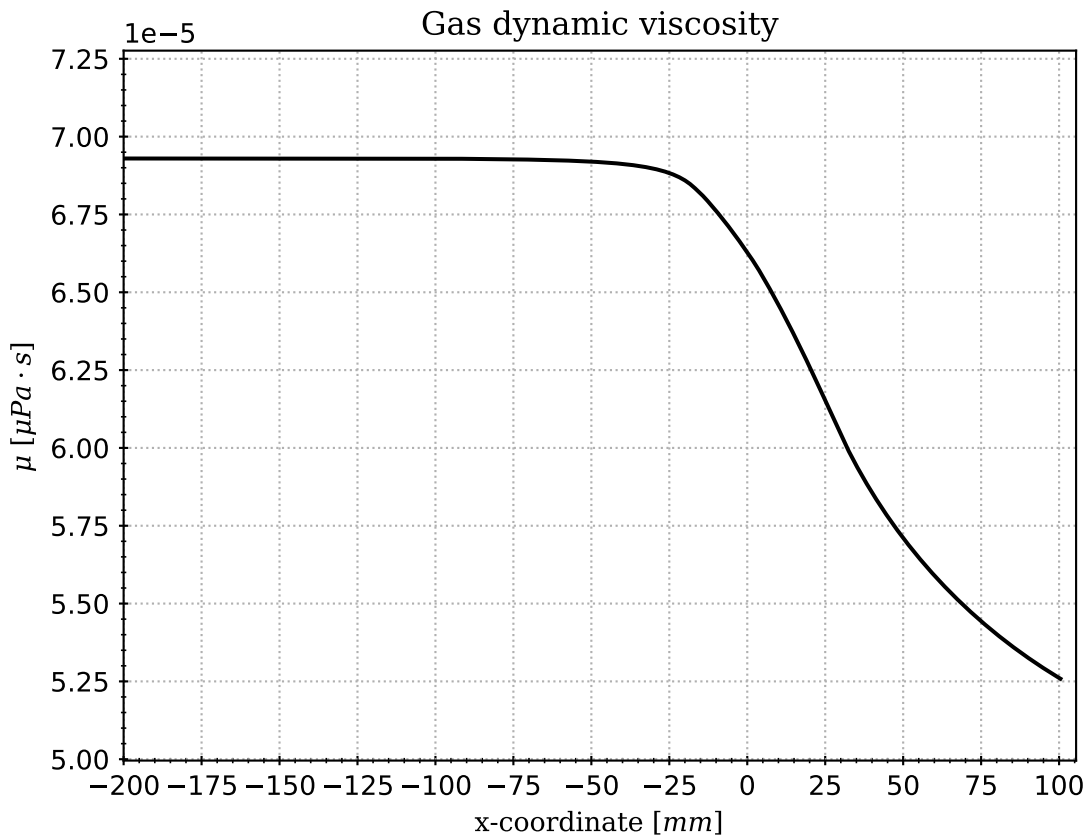
Hot-side convection coefficient h_g



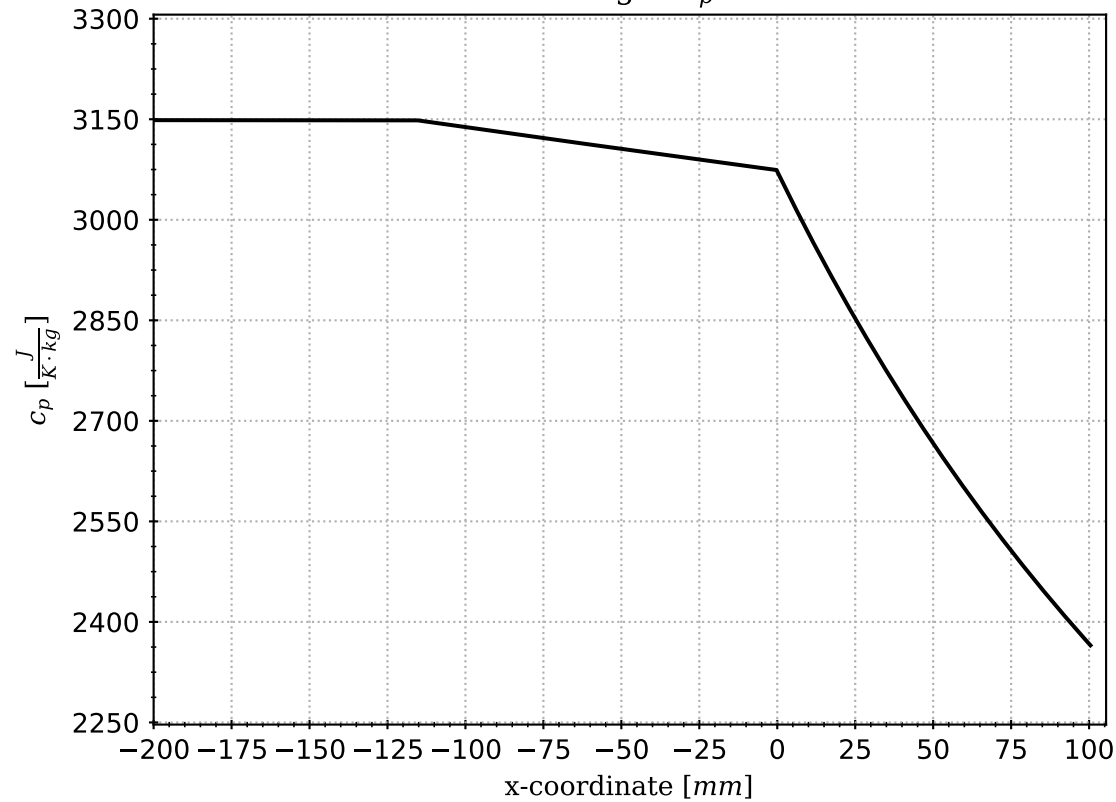
Coolant density ρ



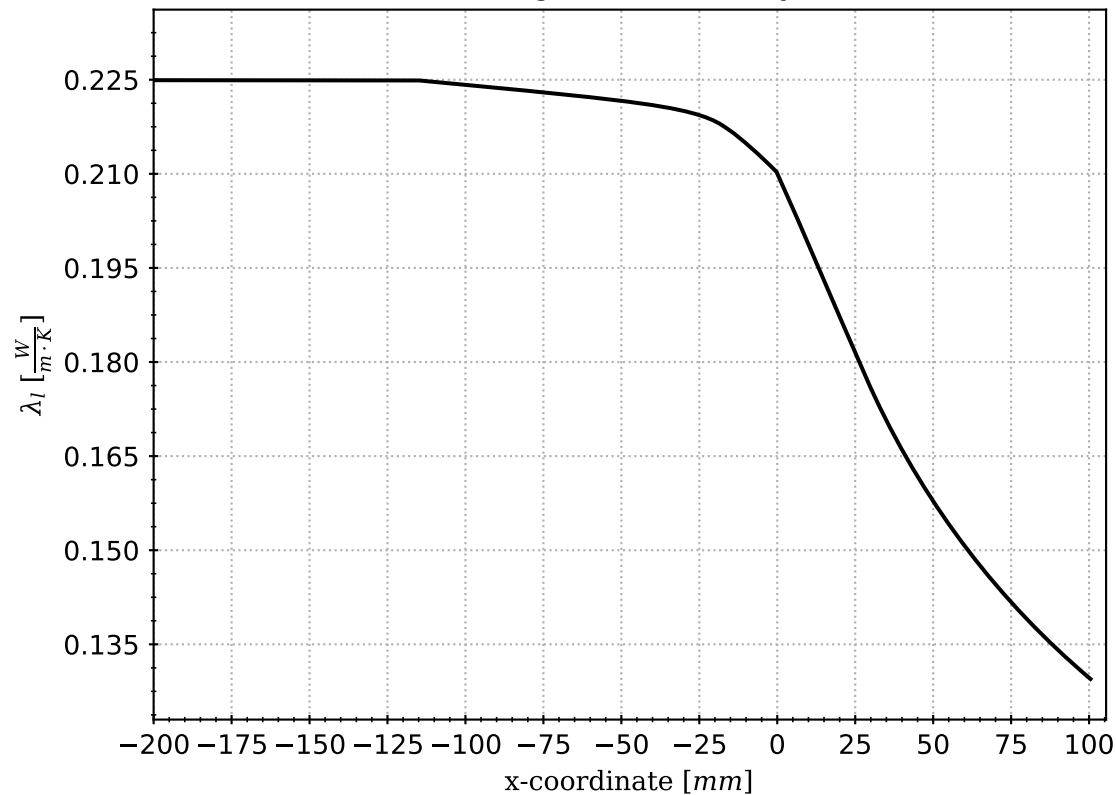




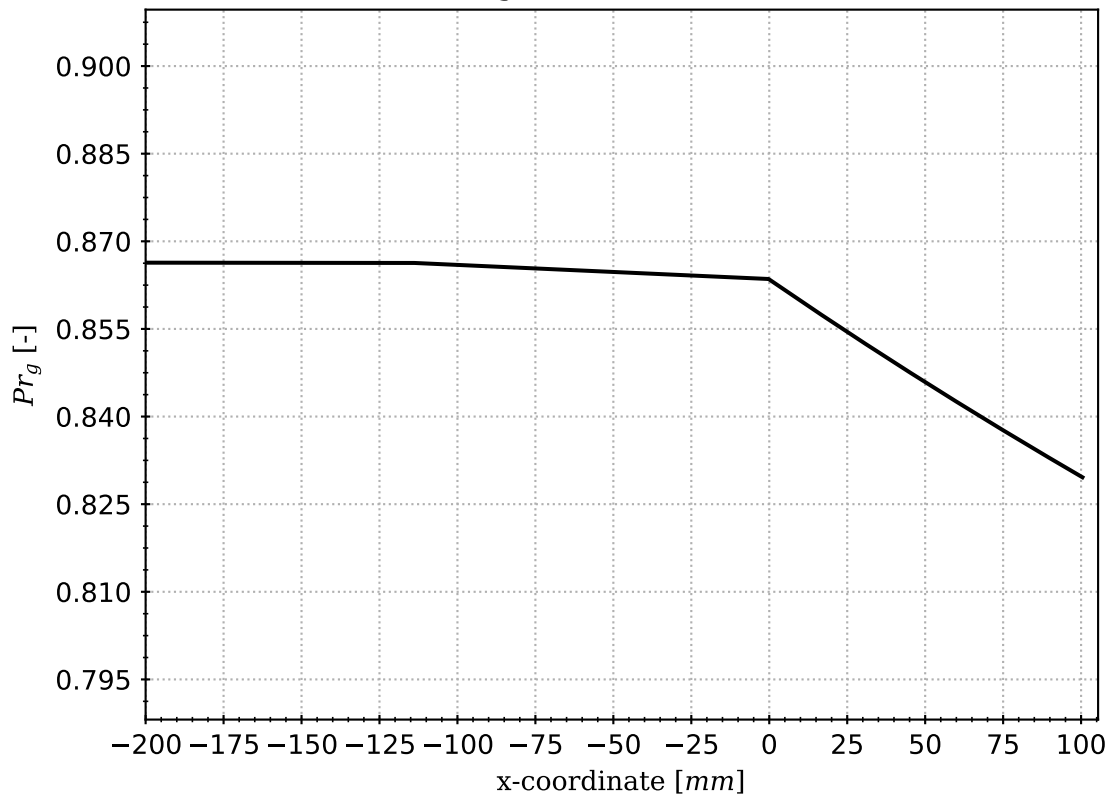
Hot gas c_p



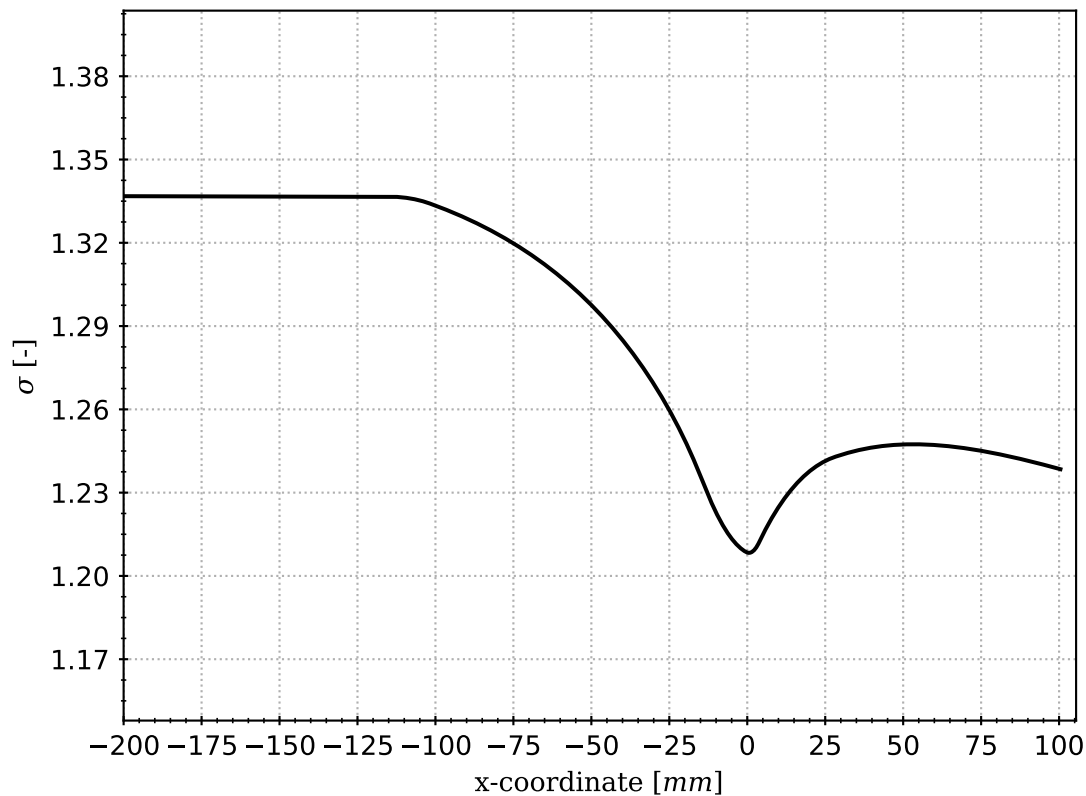
Hot gas conductivity



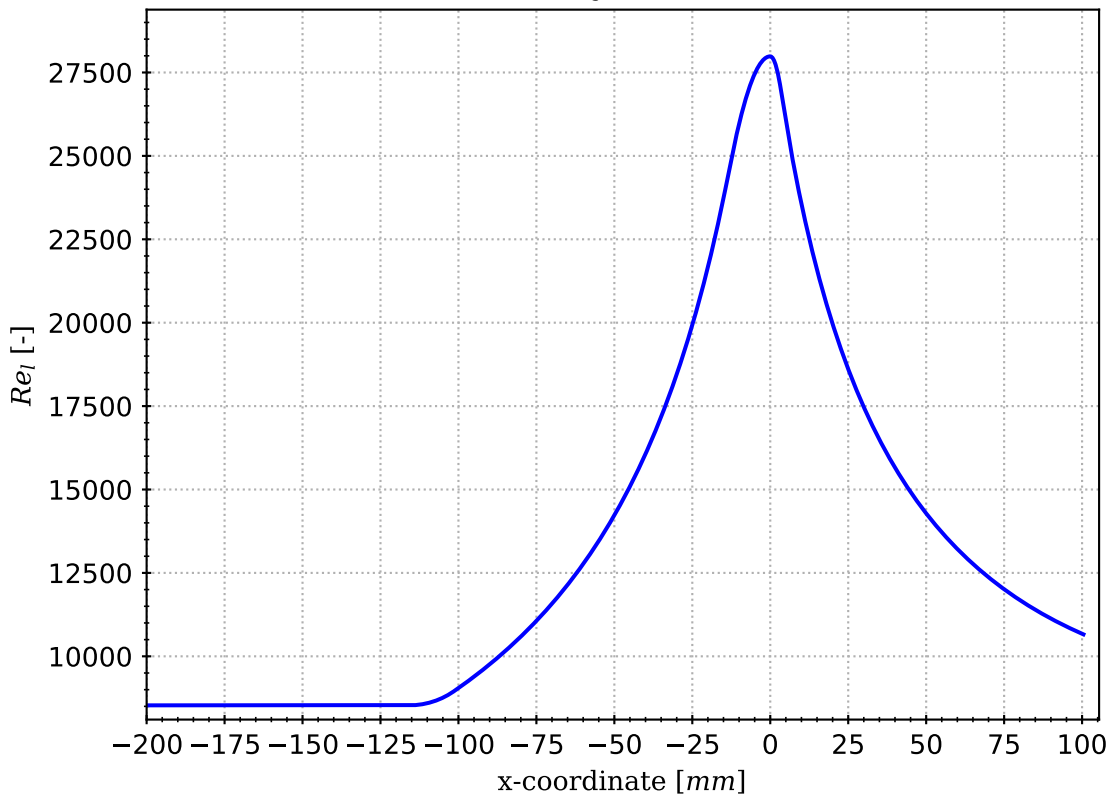
Hot gas Prandtl number



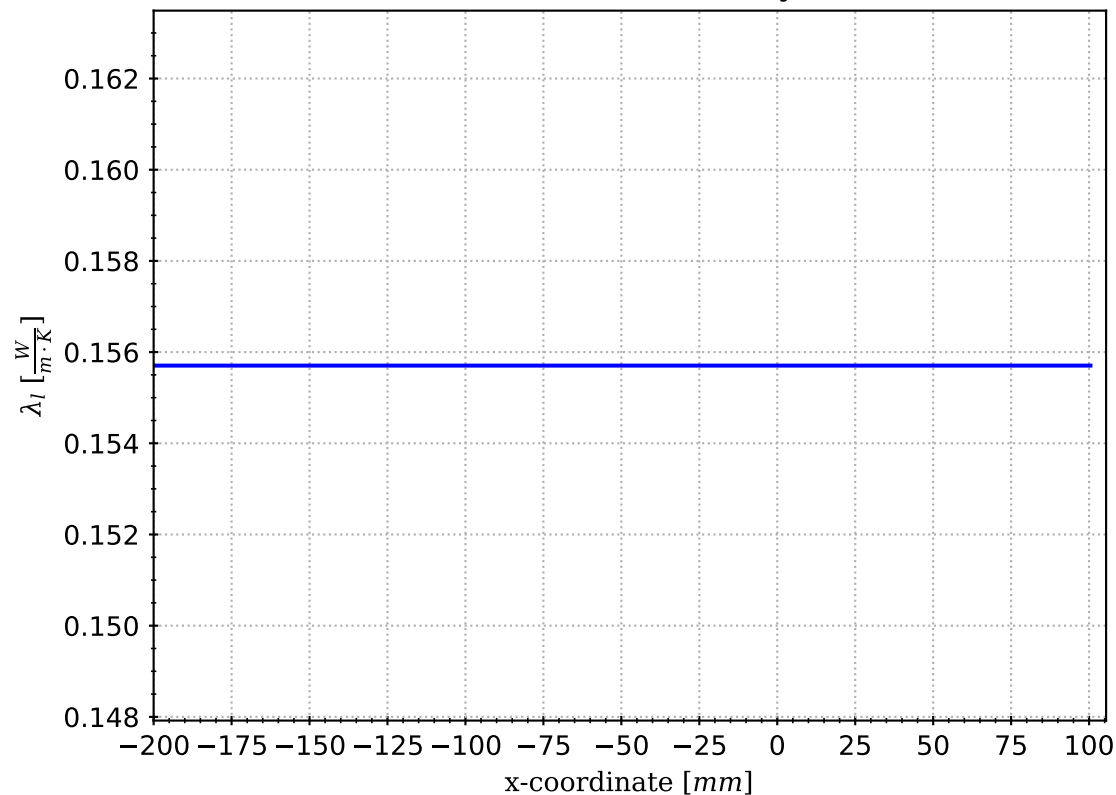
Bartz equation coefficient σ



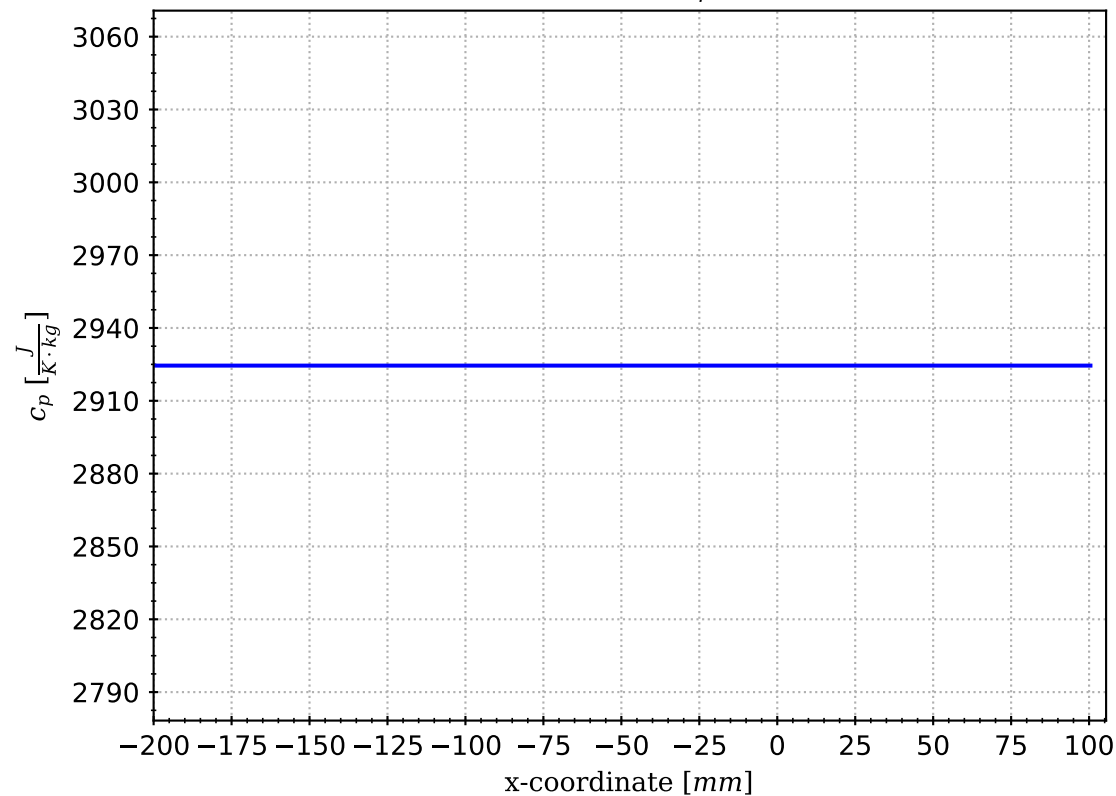
Coolant Reynolds number



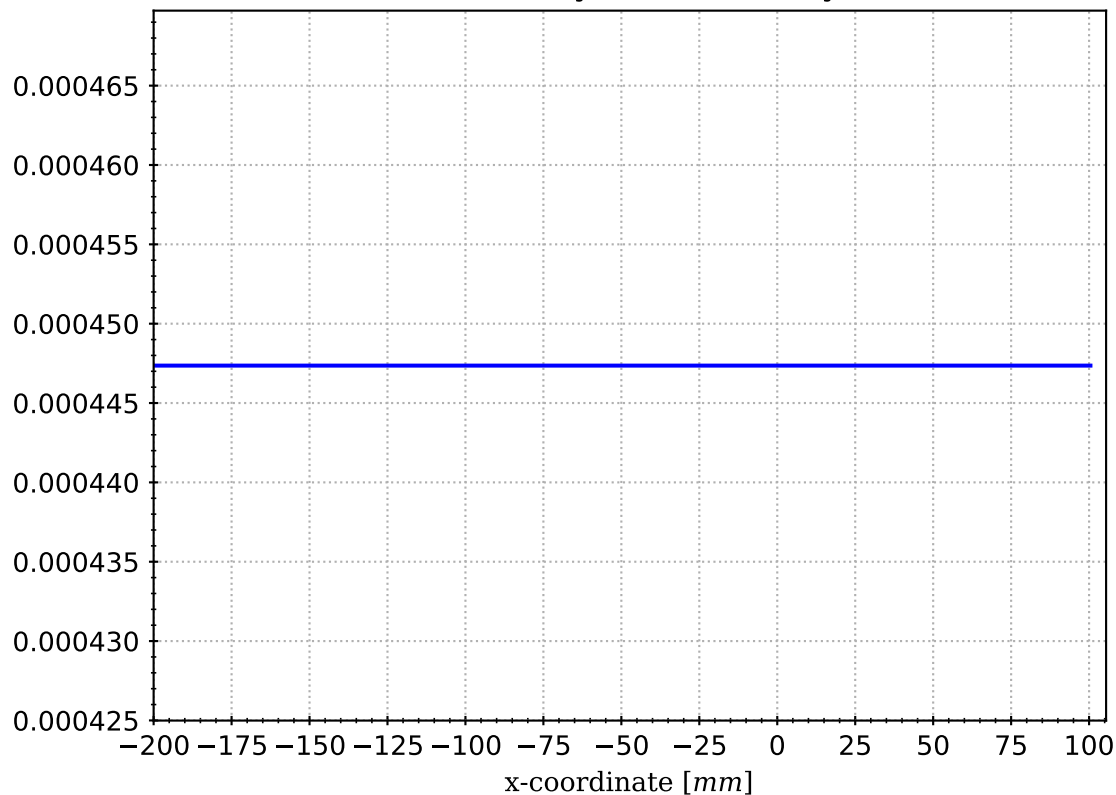
Coolant conductivity



Coolant c_p



Coolant dynamic viscosity



Coolant Prandtl number

