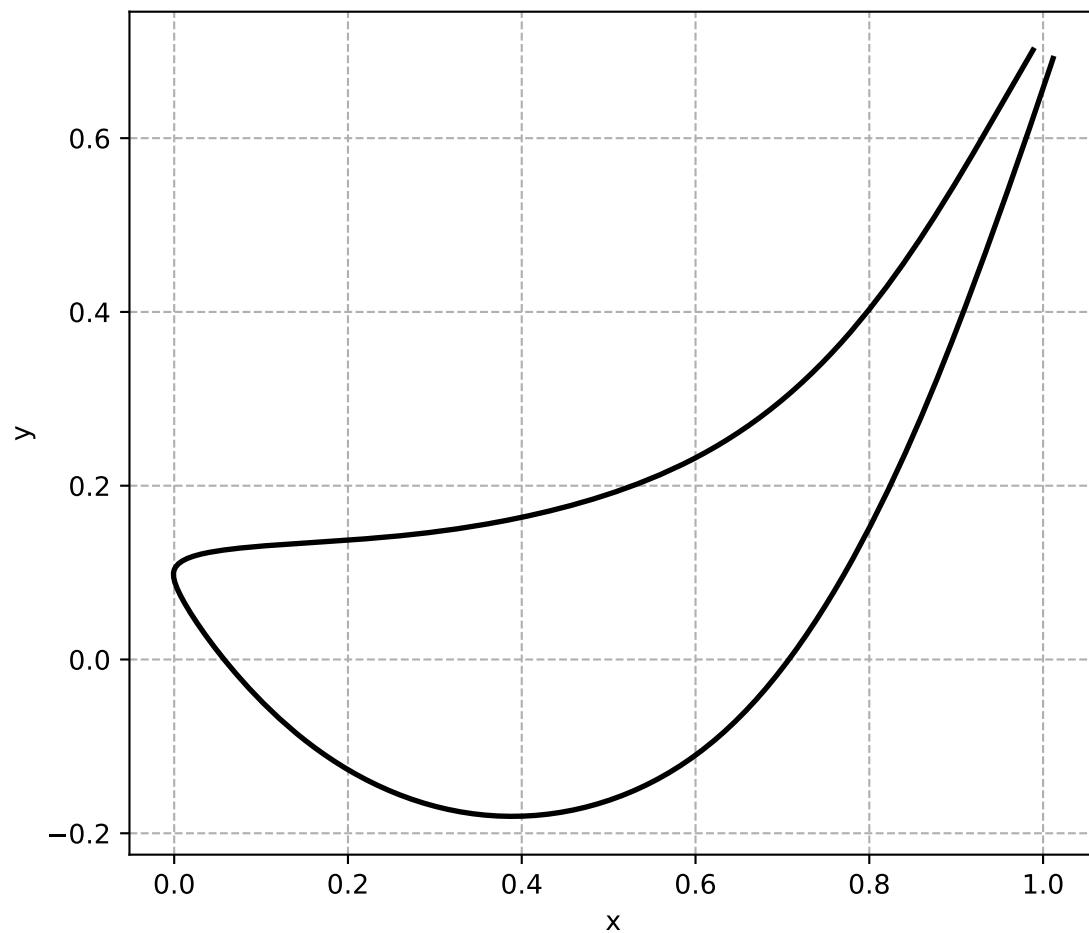
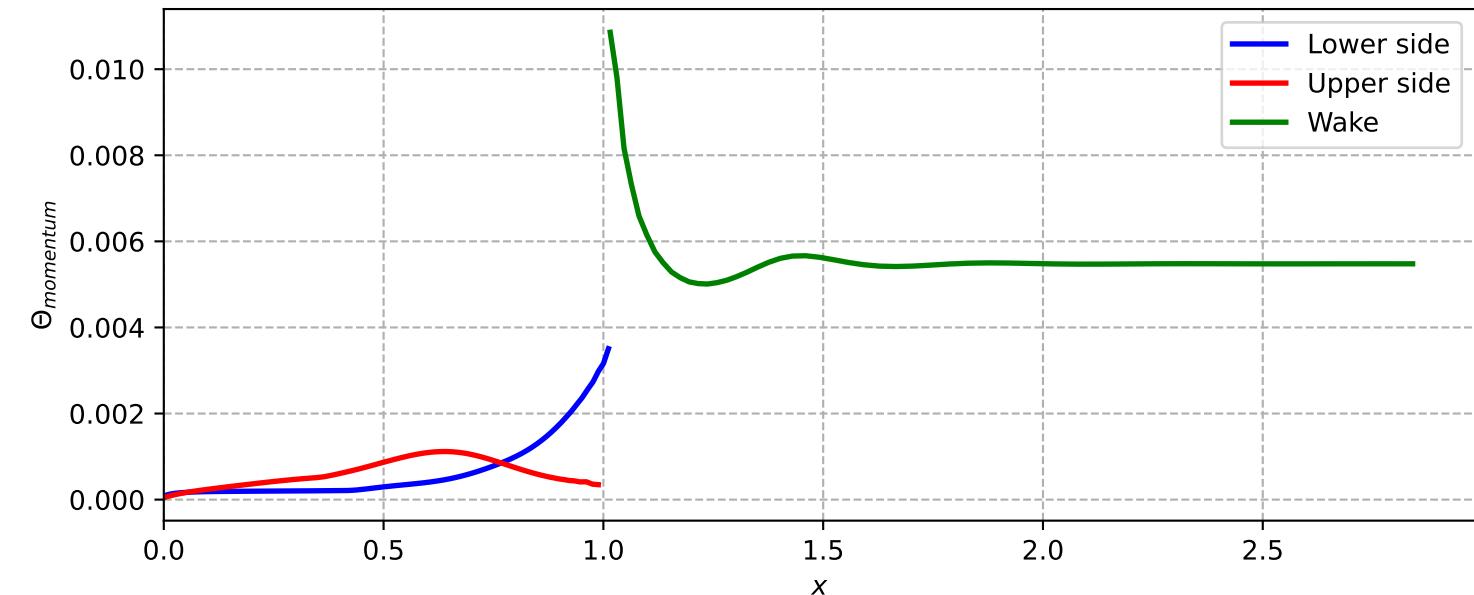
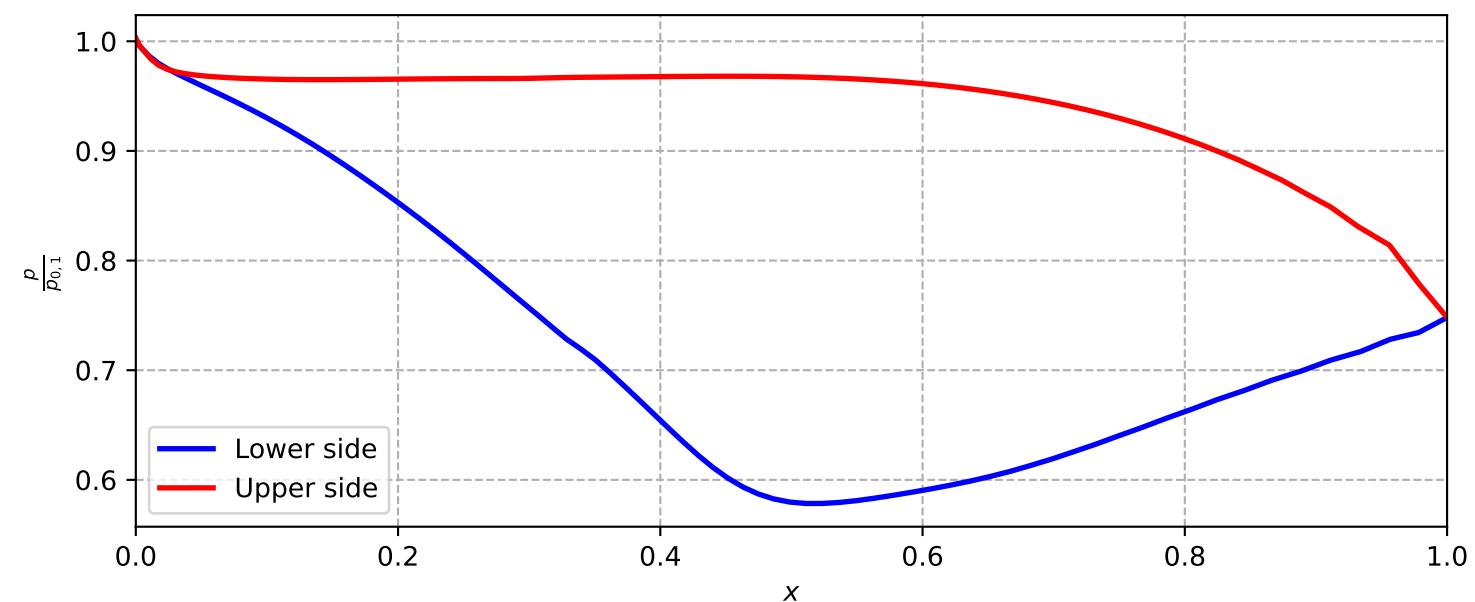
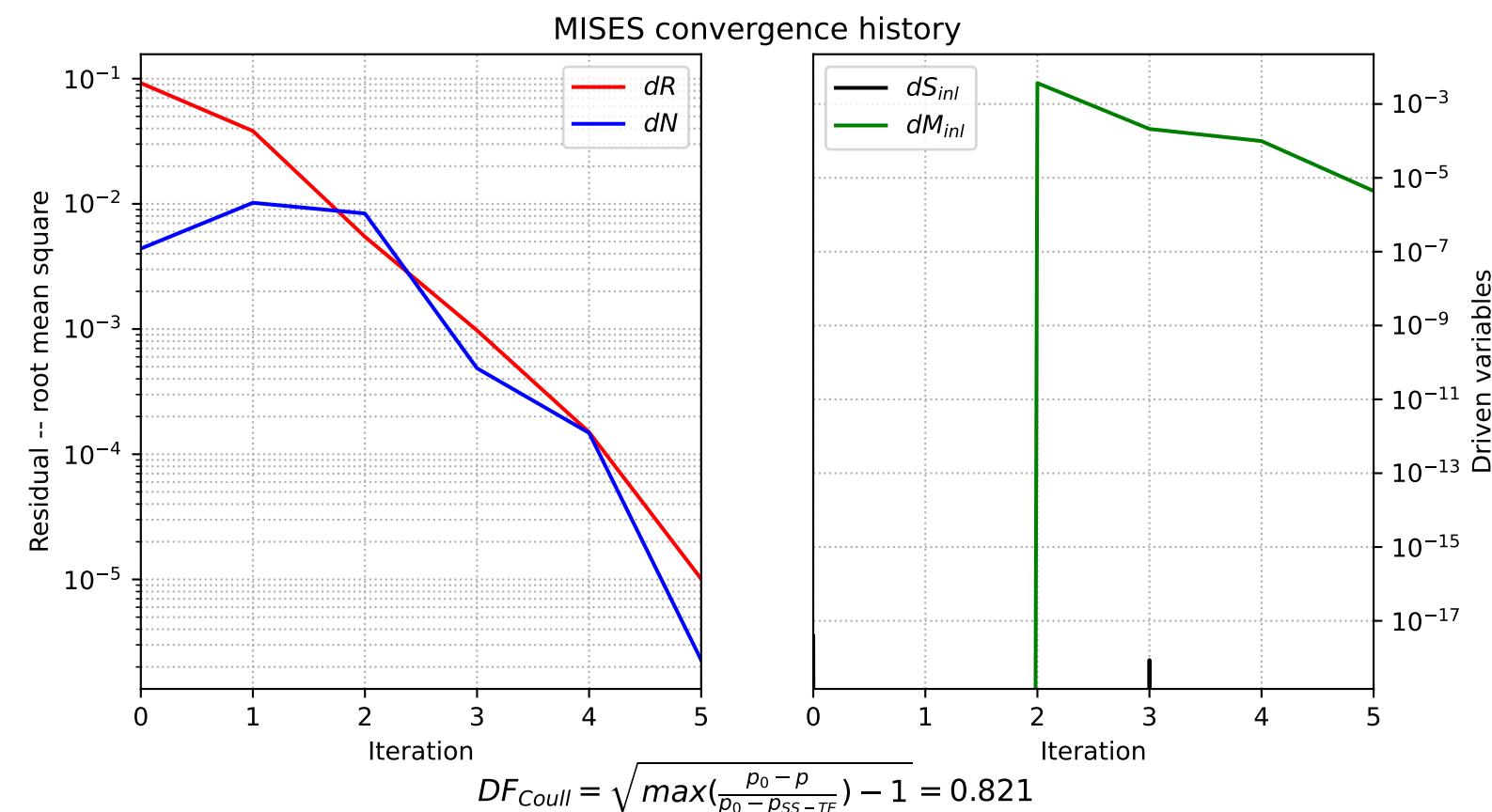
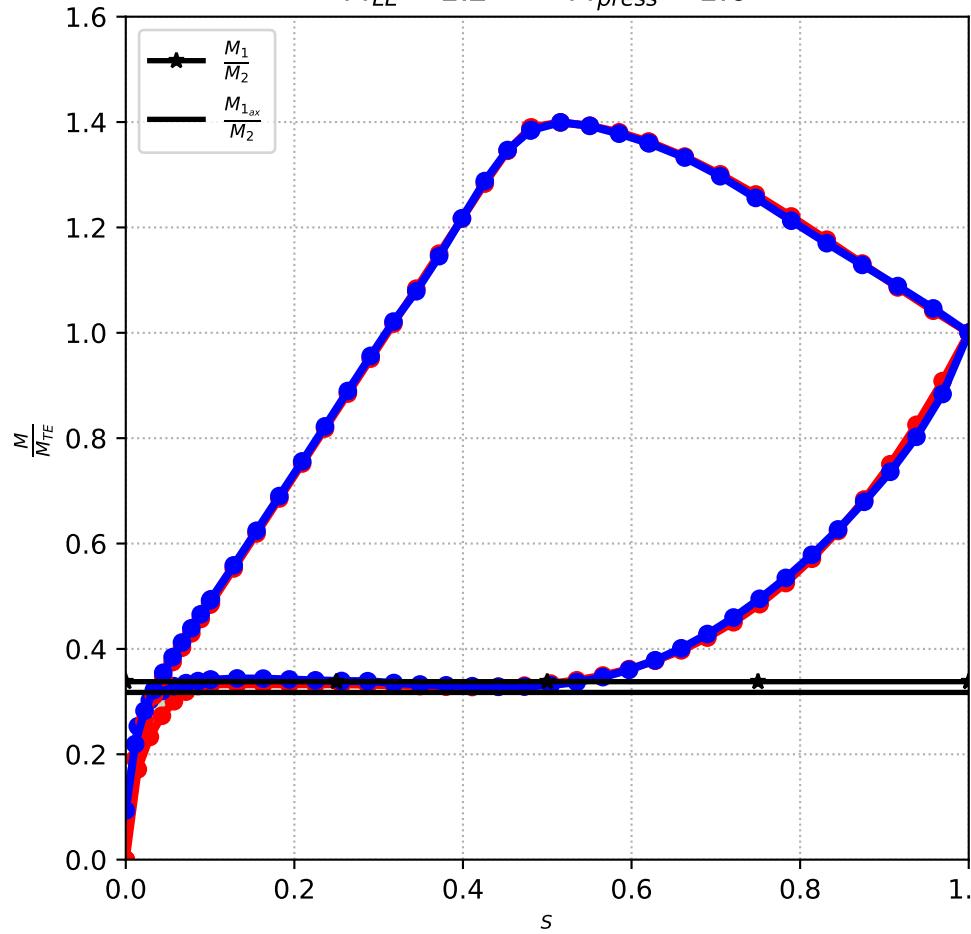


#0087 NAME: VKIblade
 $\alpha_1 = -20.000^\circ$ $\alpha_2 = \text{KUTTA CONDITION}$
 CHINL = 2.000 CHOUT = 2.000
 PITCH = 1.031 $\beta = 34.000^\circ$
 $R_{LE} = 0.015$ $\zeta_{TE} = 0.025$

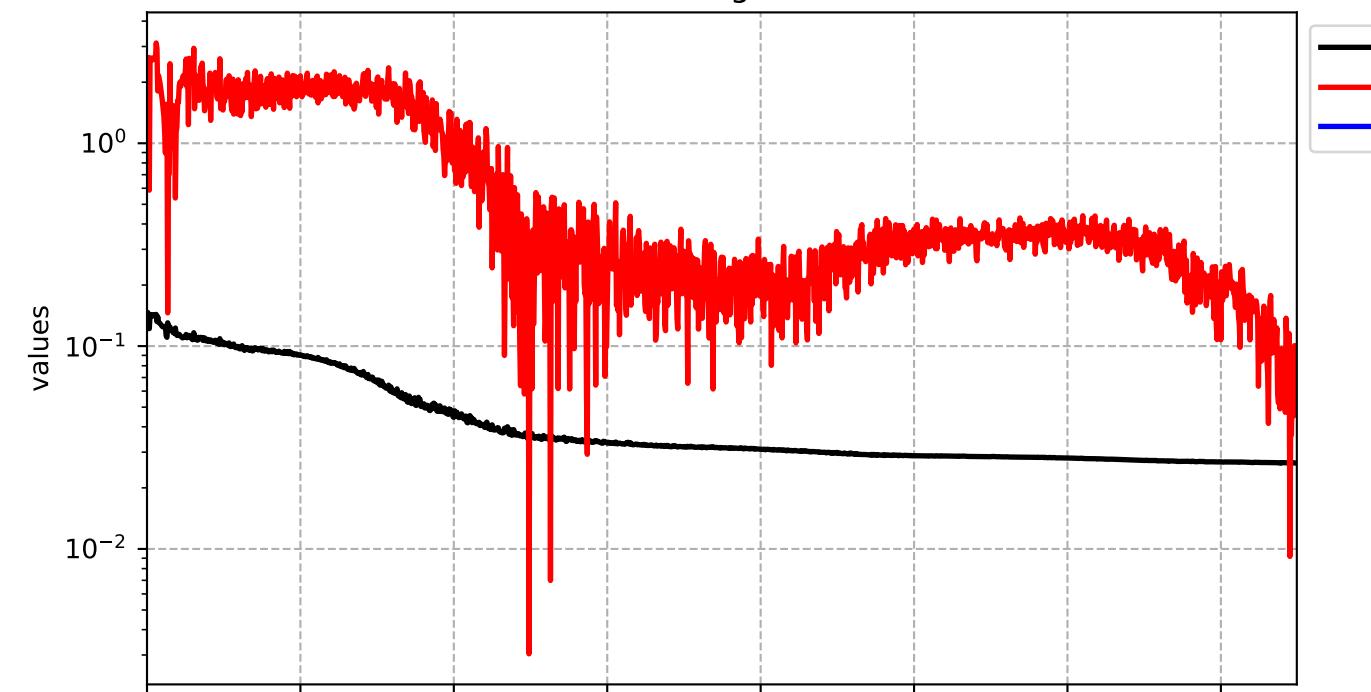


$RMSE = 2.185E - 02$
 $RMSE_{PS} = 2.623E - 02$ $RMSE_{SS} = 1.666E - 02$
 $\alpha_{2, target} = 65.00^\circ$ $\Delta\alpha_2 = 0.79^\circ$ $\alpha_{2, real} = 65.79^\circ$
 $M_{peak} = 1.4$ $L_{peak} = 0.5$
 $M_{LE} = 1.2$ $M_{press} = 1.0$

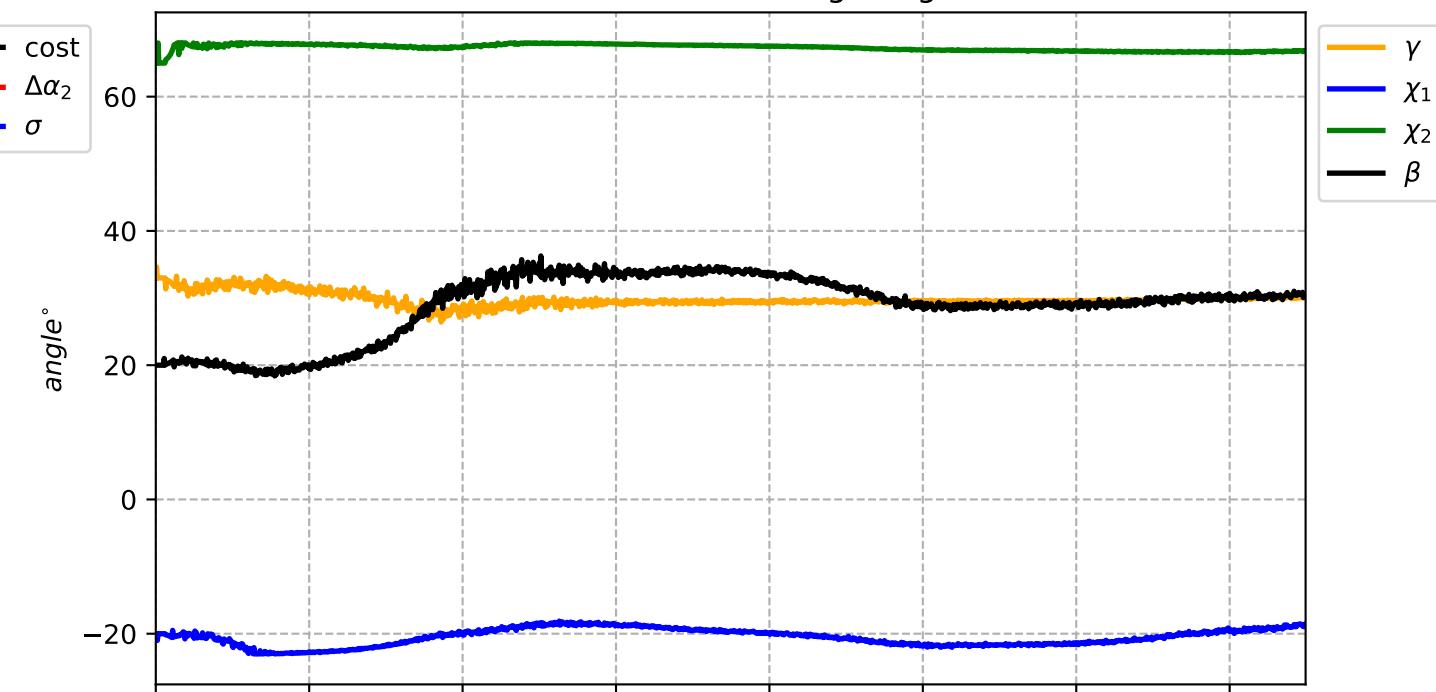


Optimization: 1
Method: Nelder-Mead

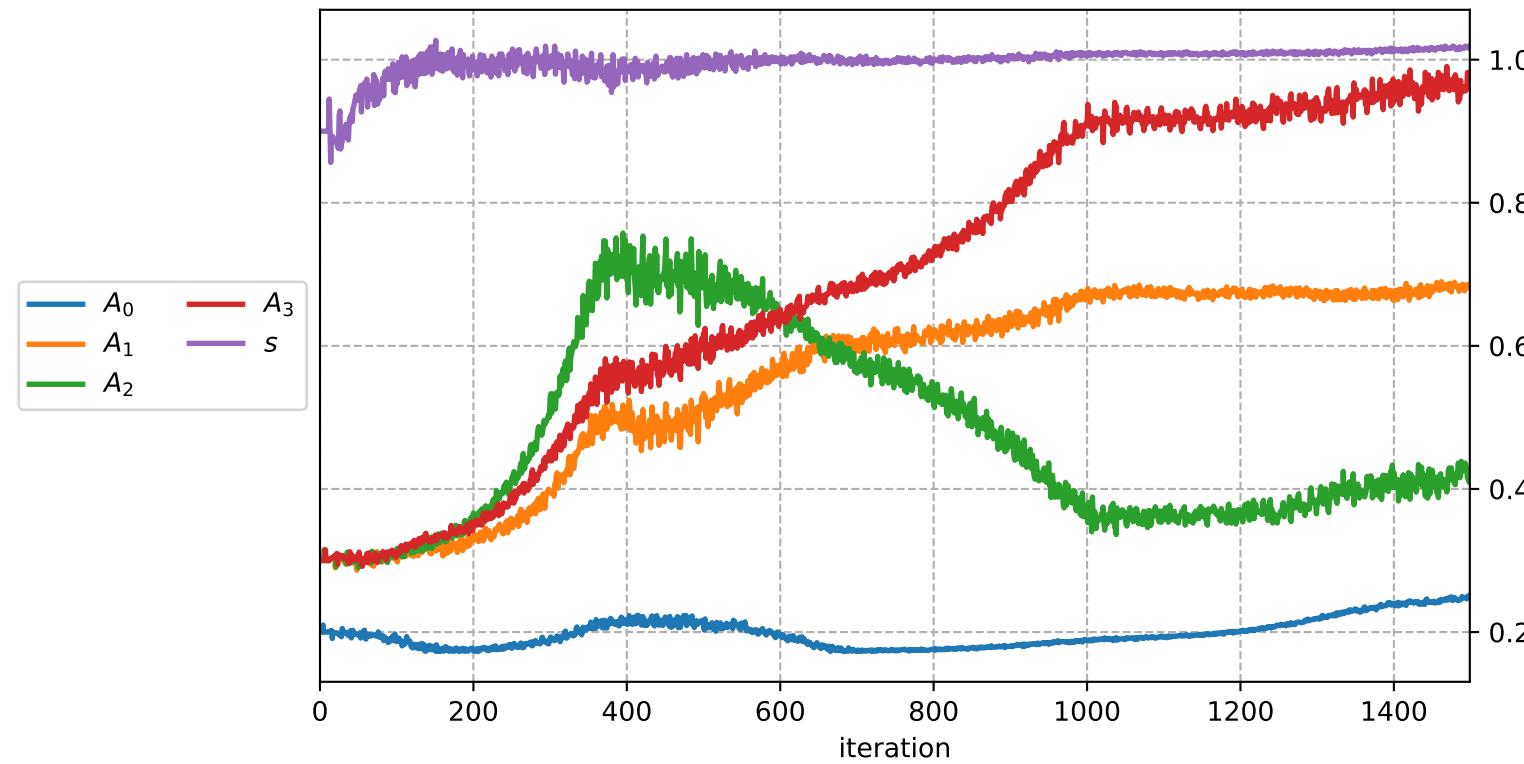
Convergence



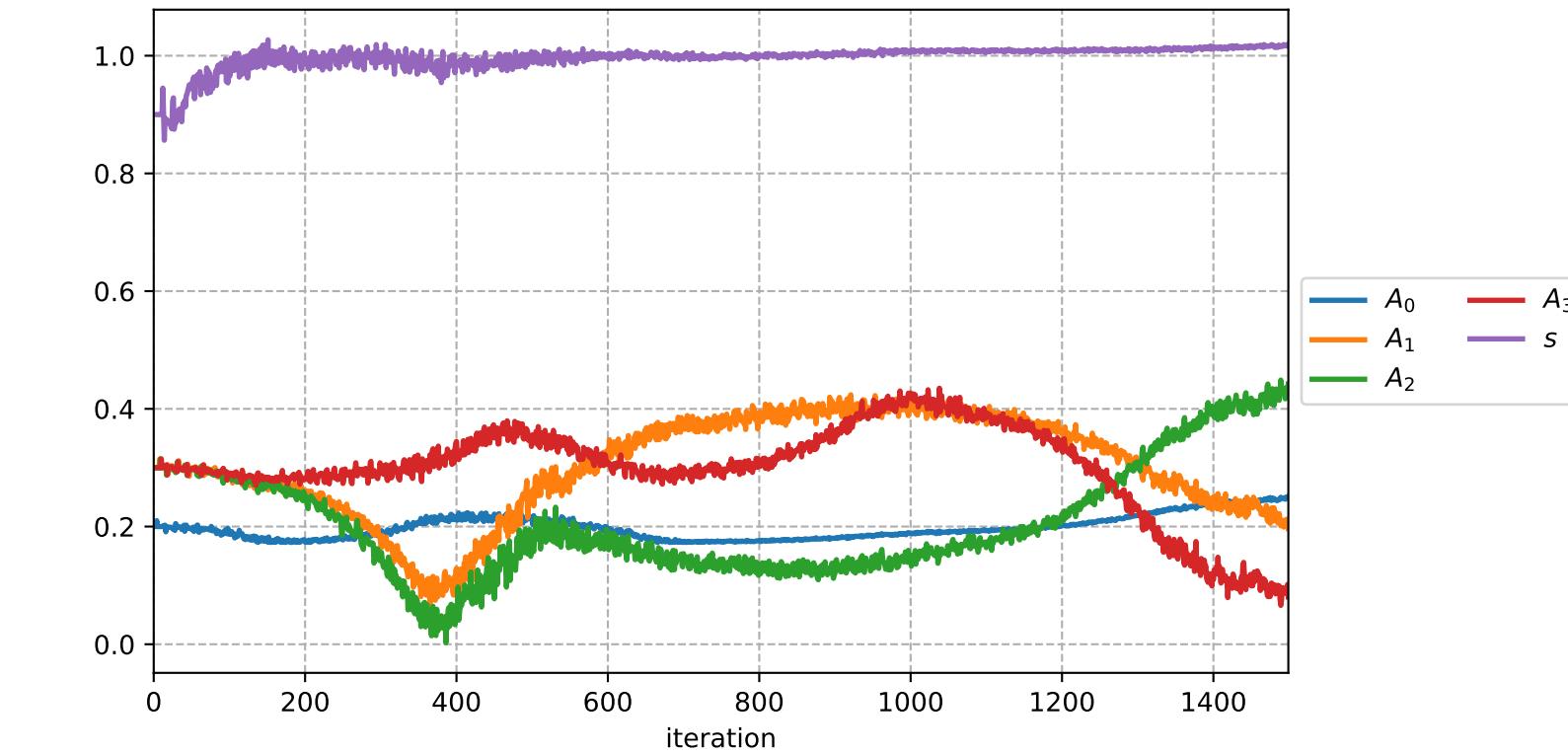
Camberline and wedge angle



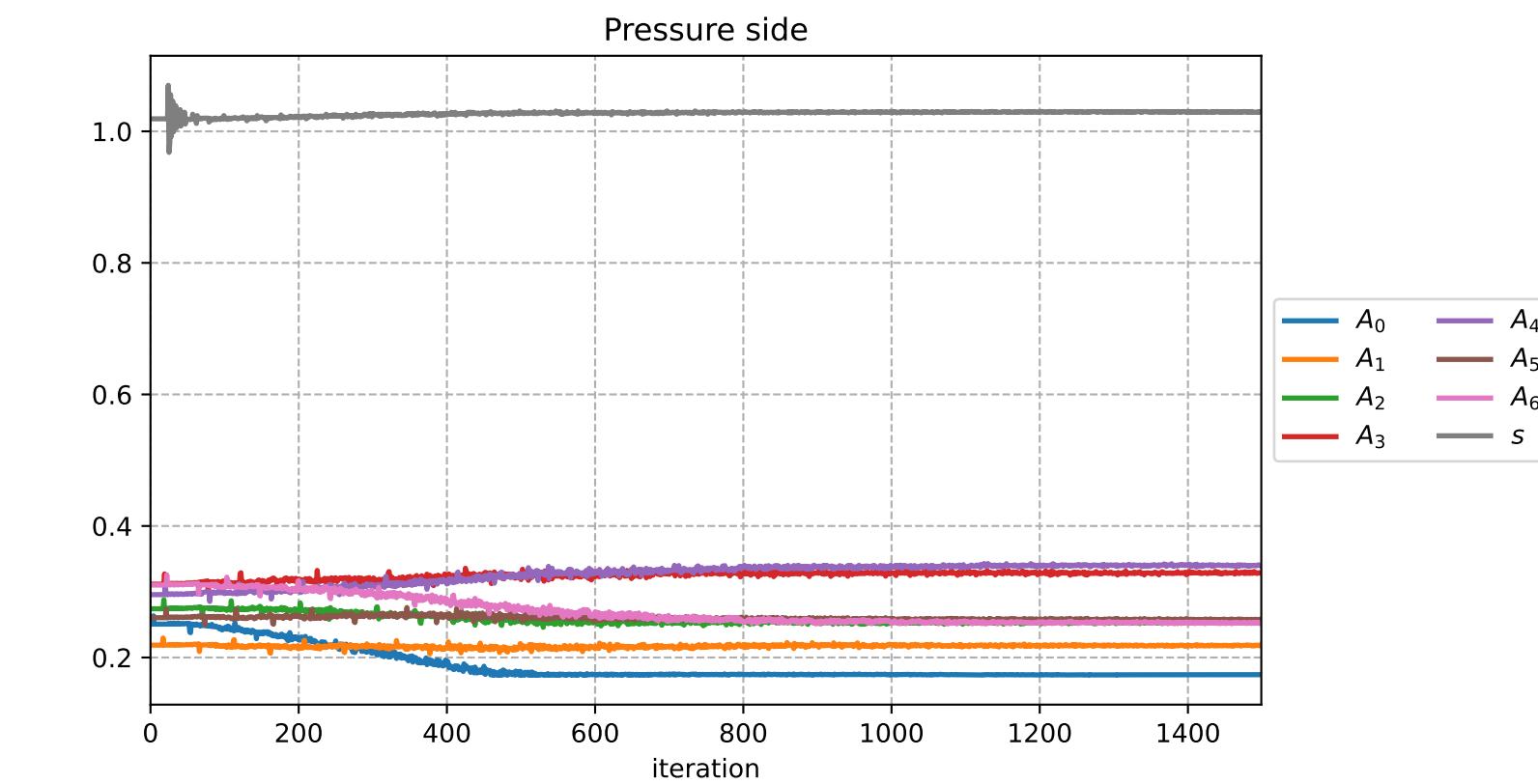
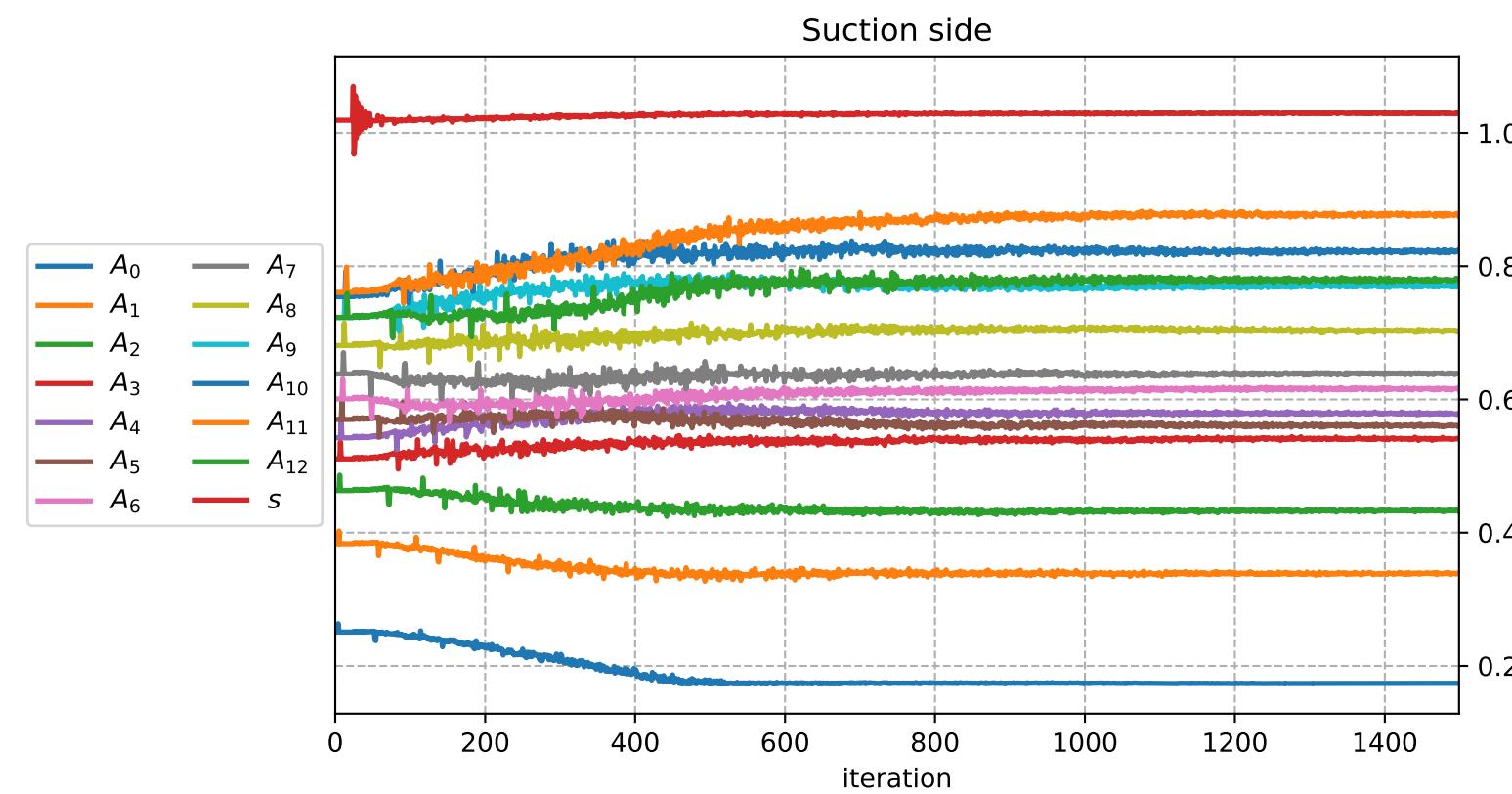
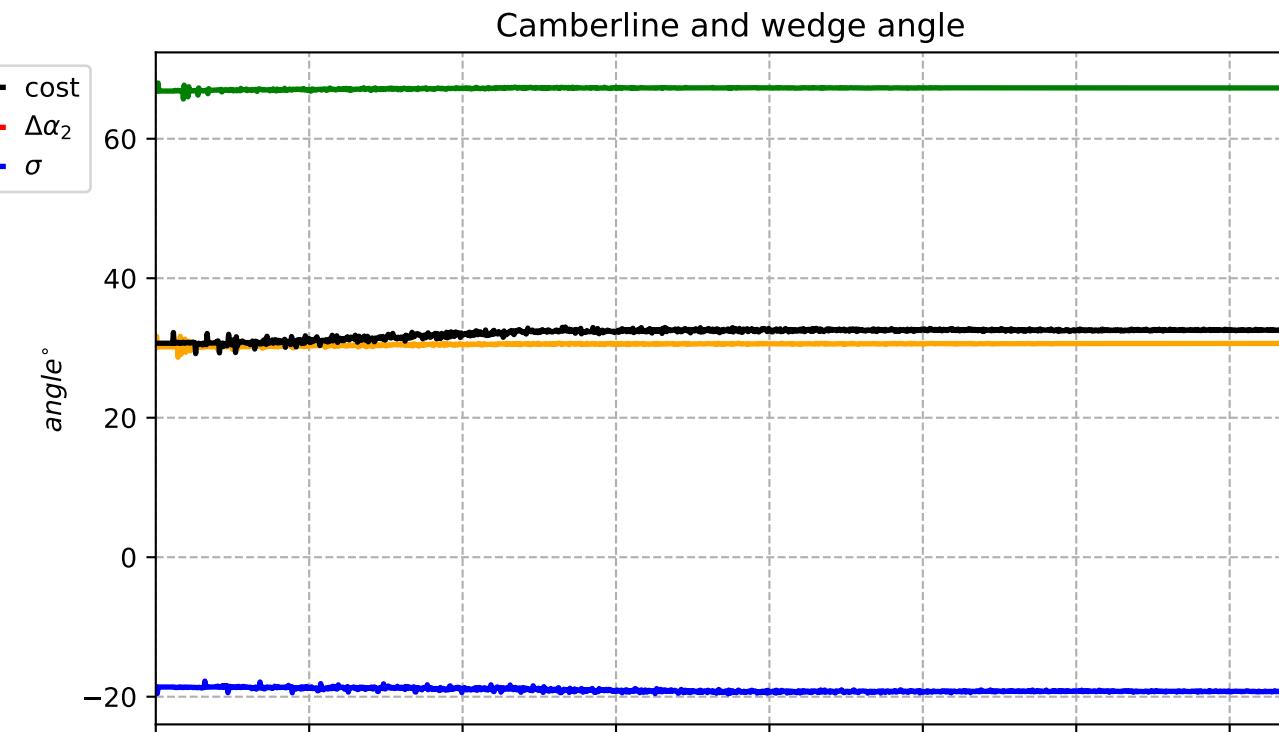
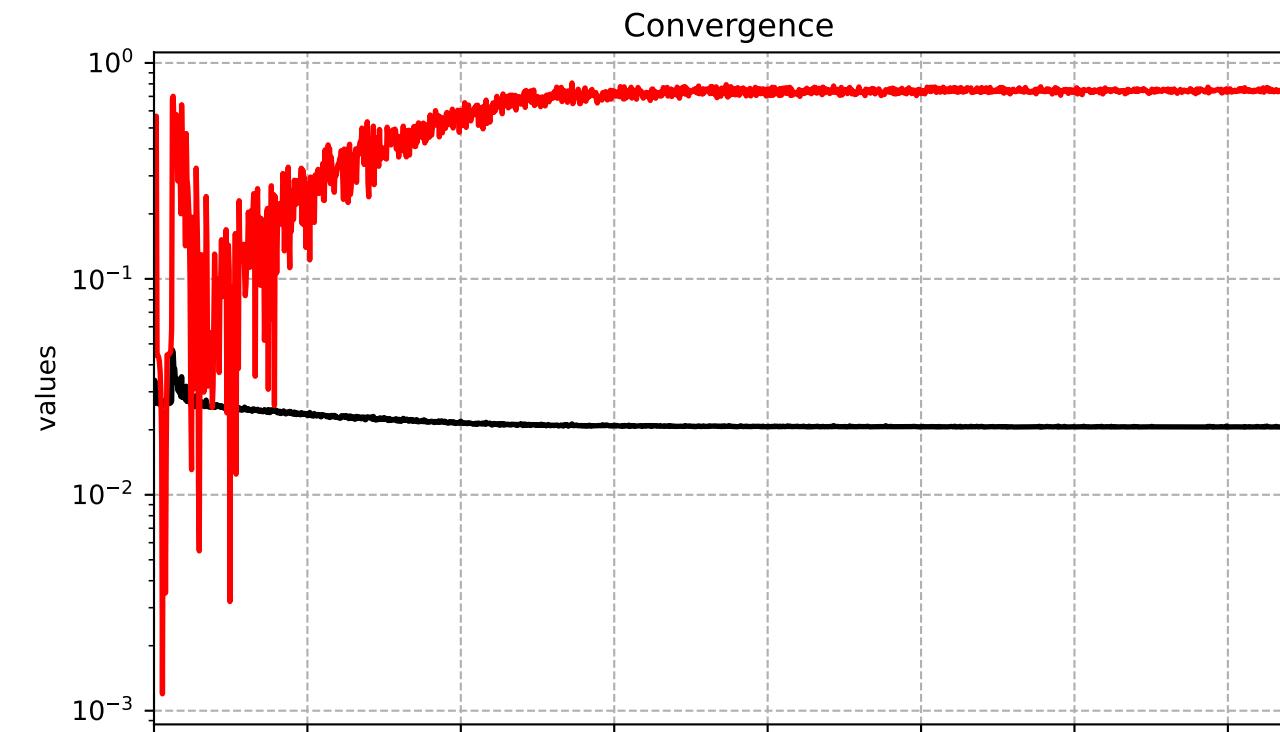
Suction side



Pressure side

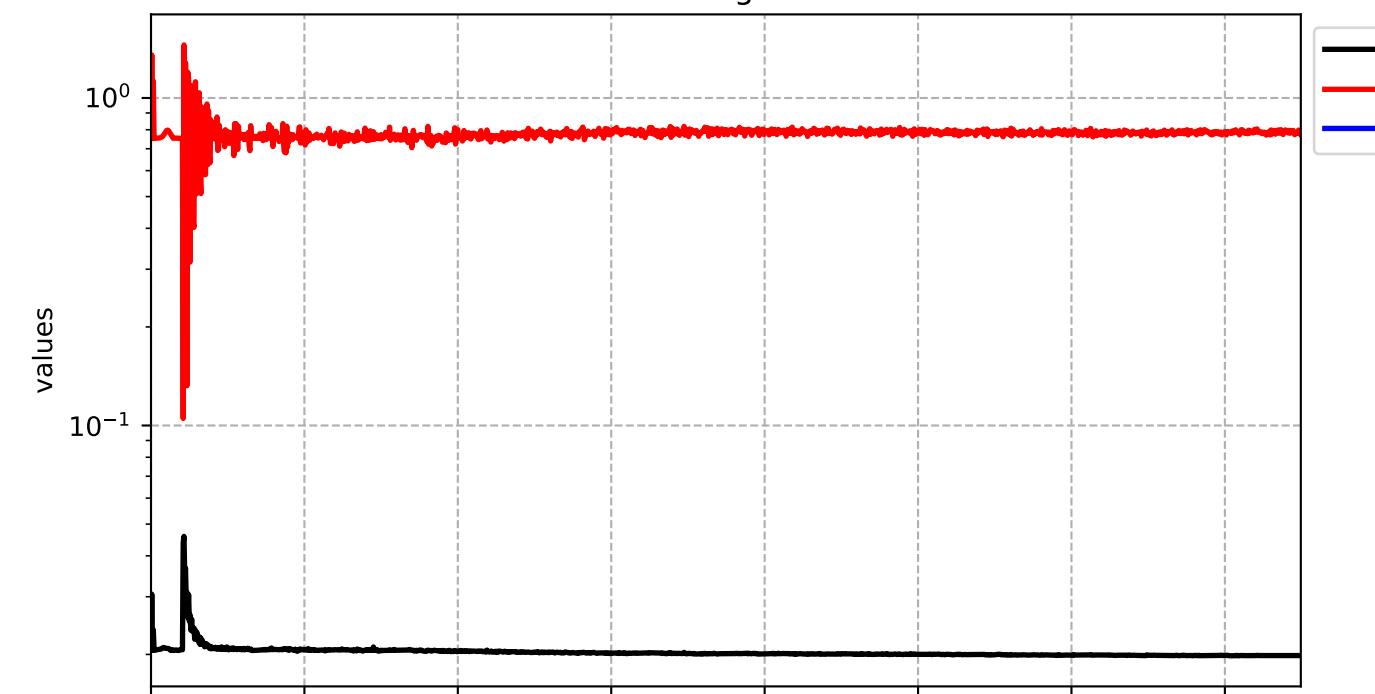


Optimization: 2
Method: Nelder-Mead

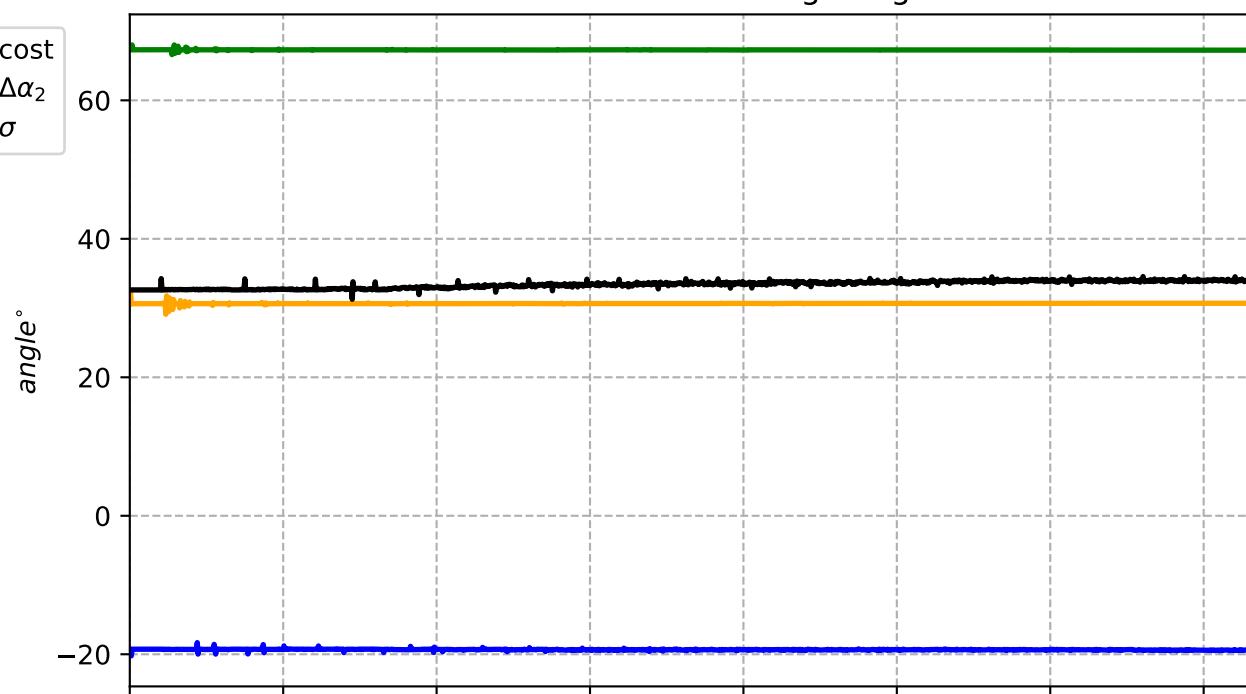


Optimization: 3
Method: Nelder-Mead

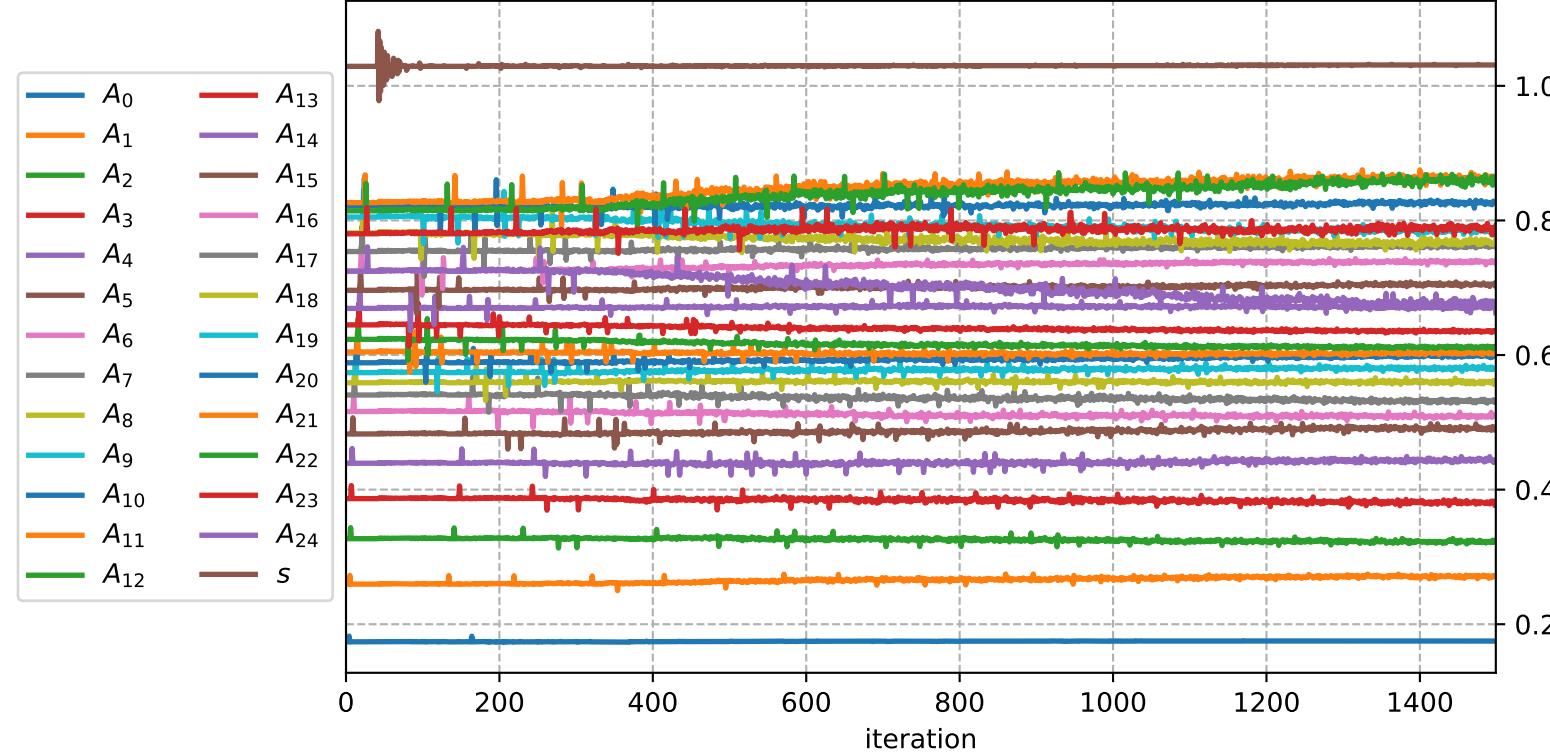
Convergence



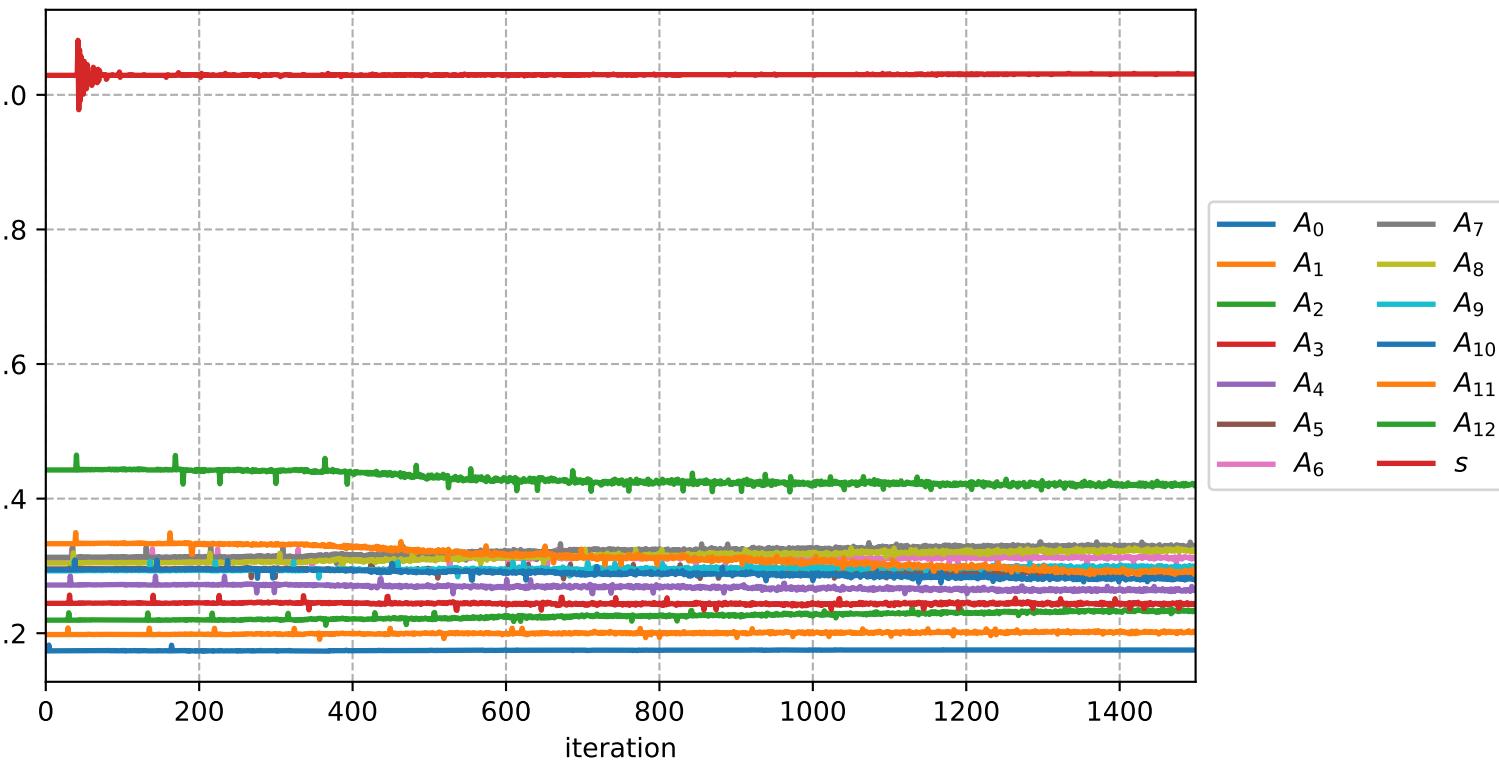
Camberline and wedge angle

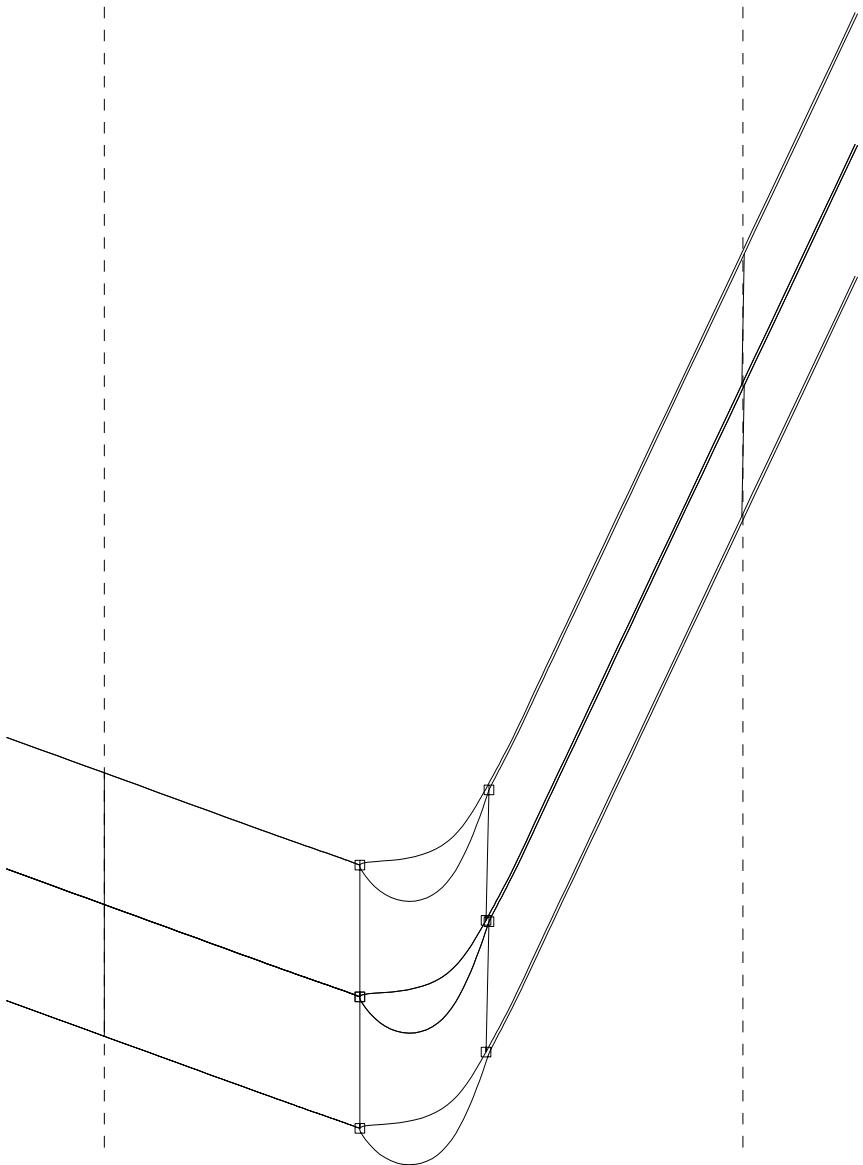


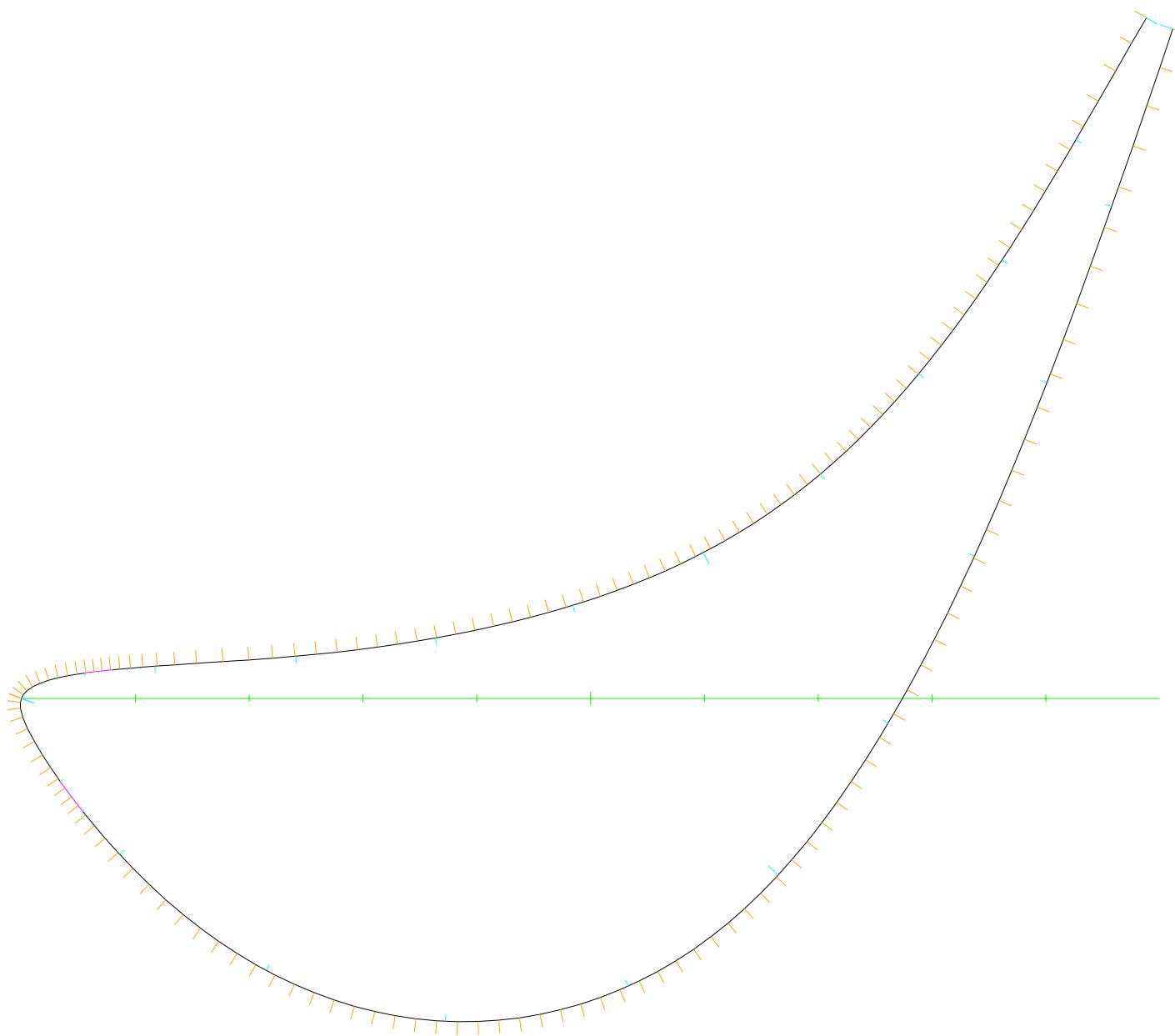
Suction side

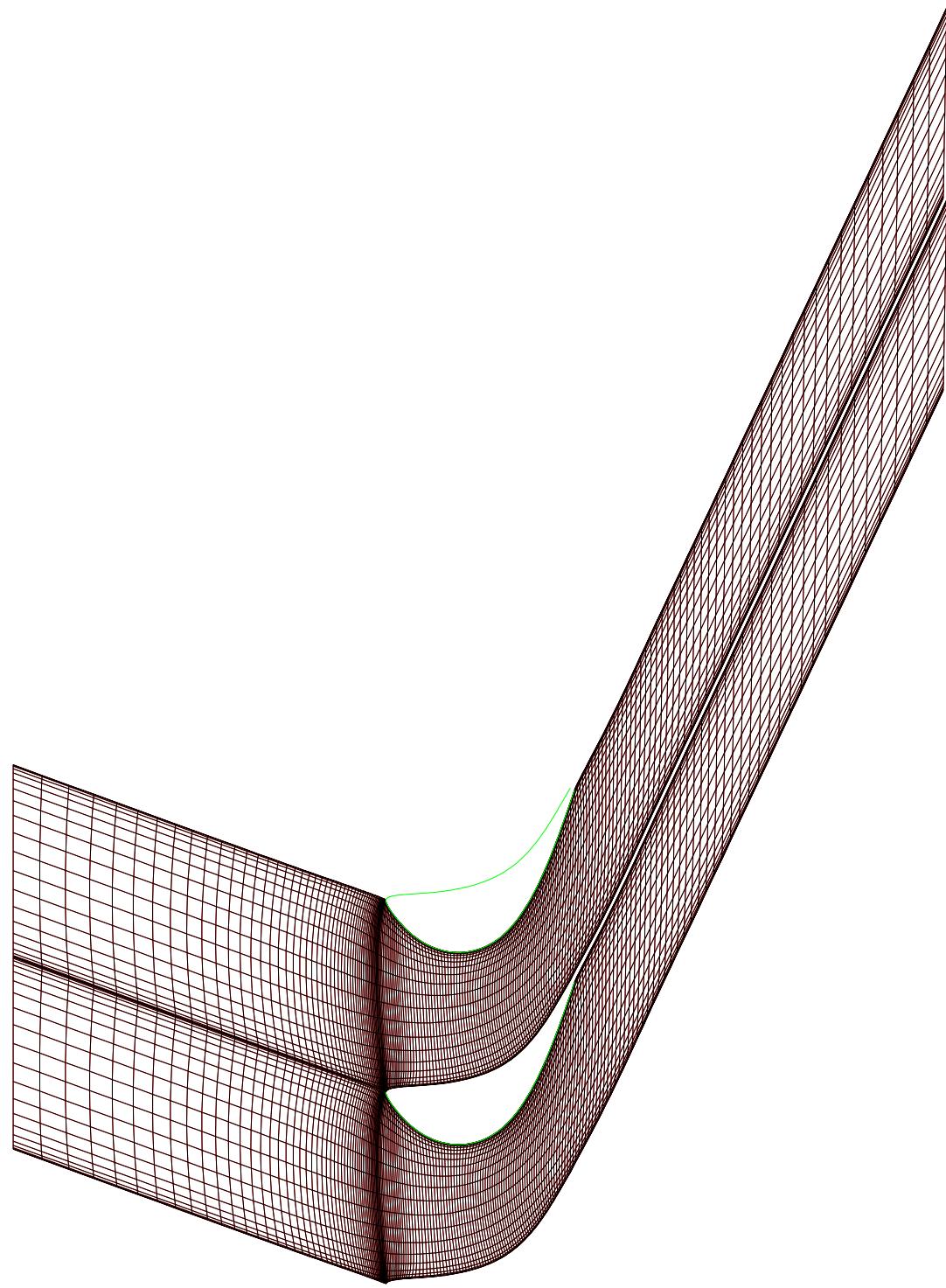


Pressure side



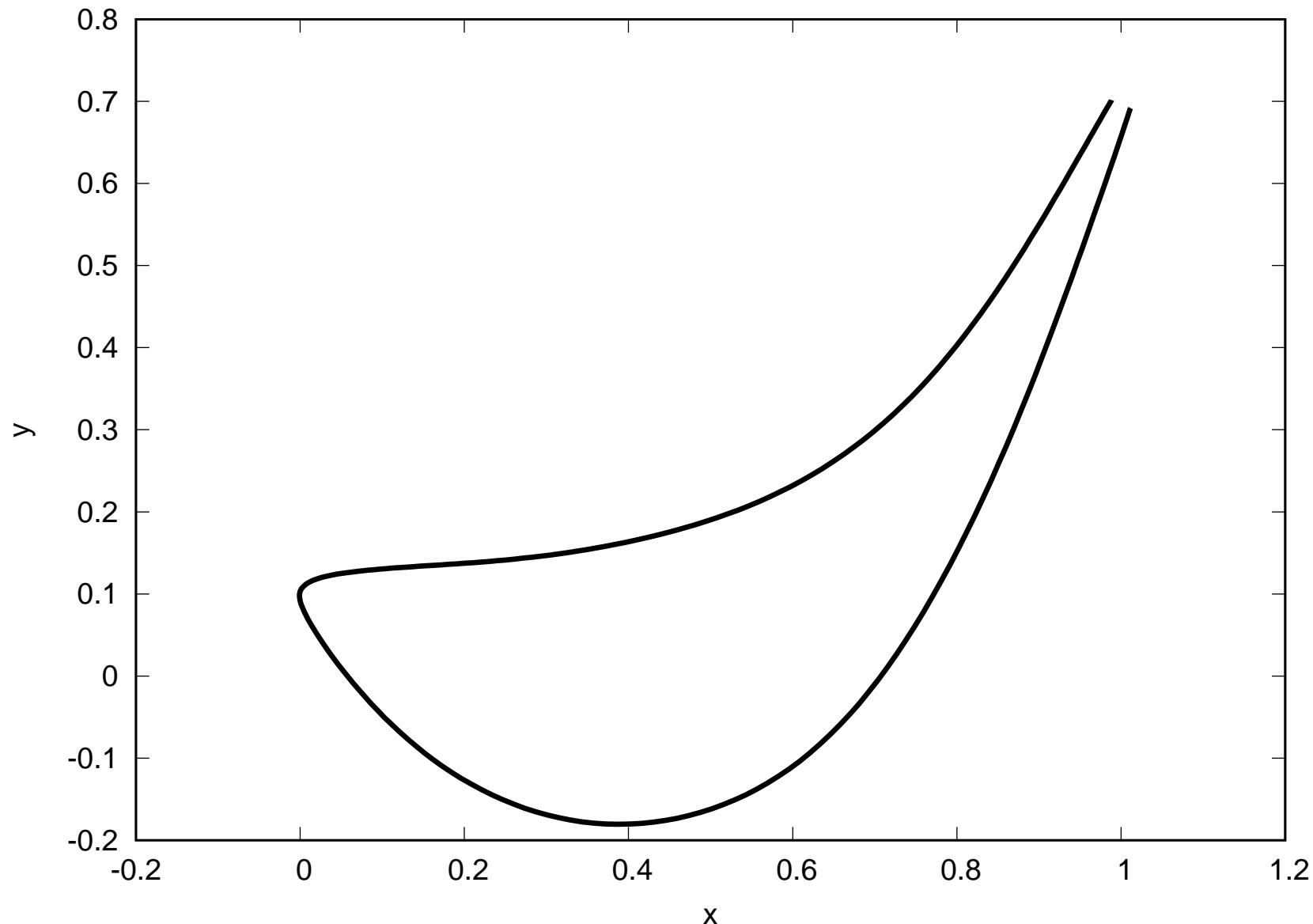






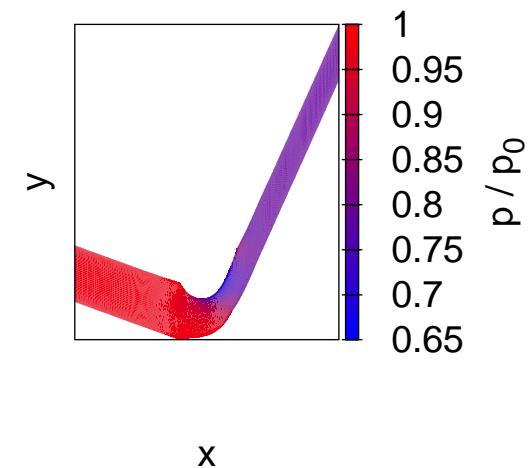
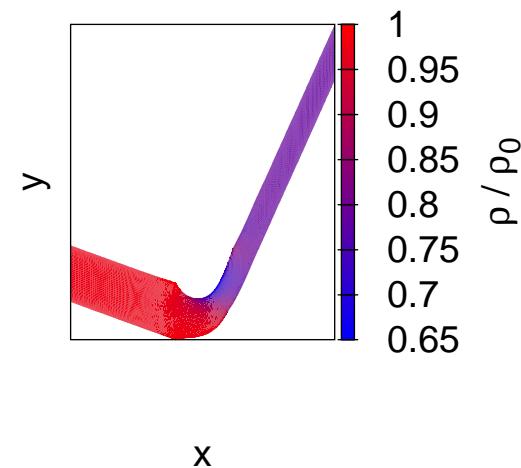
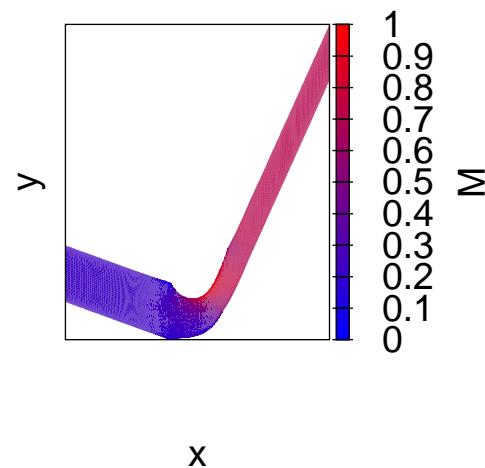
$\alpha_1 = -20.0^\circ \parallel \alpha_2 = 65.0^\circ \parallel M_2 = 0.7 \parallel s = 1.031 \parallel Re = 600000.0$

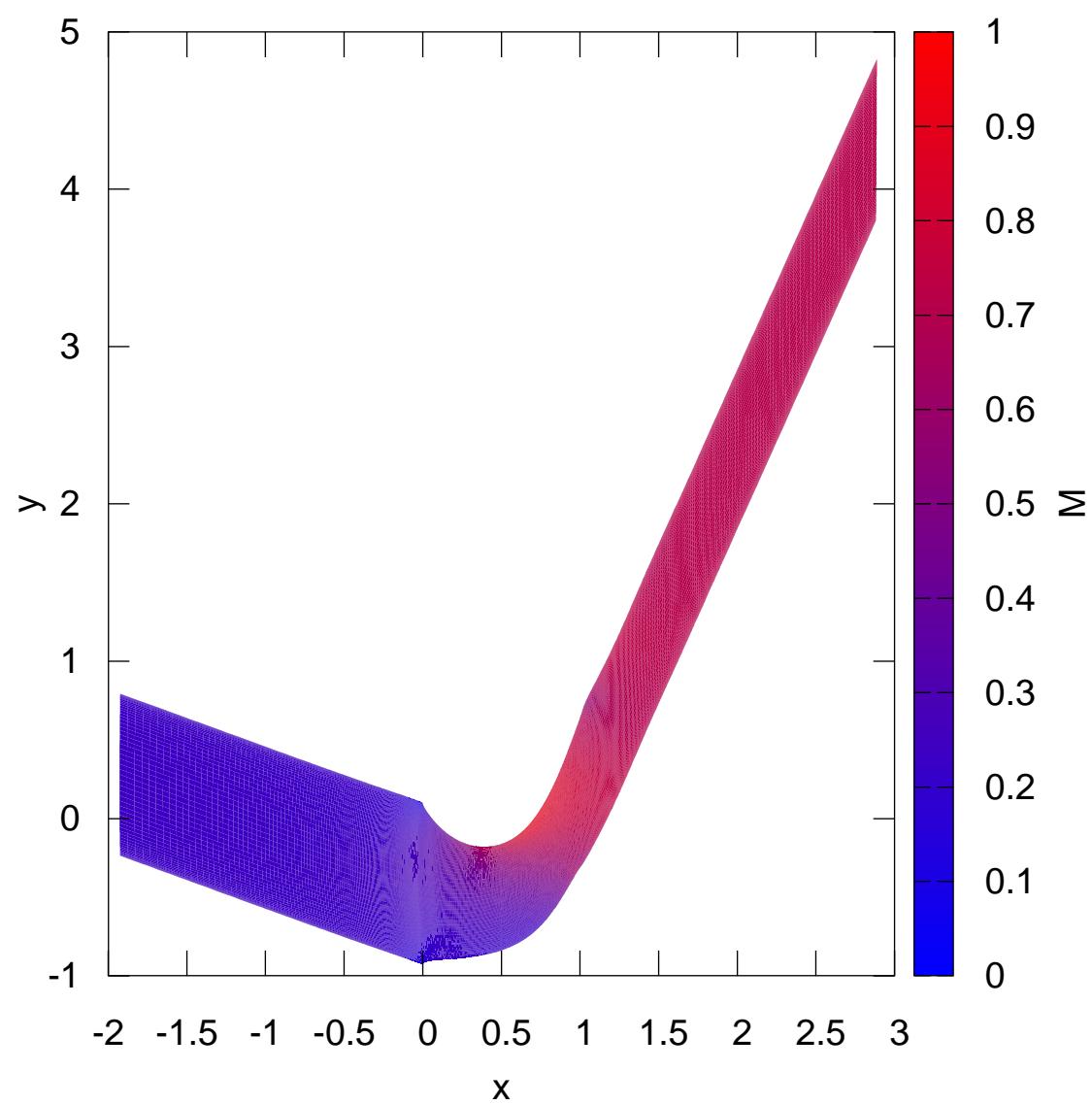
$M_{LE} = 1.2 \parallel M_{PEAK} = 1.4 \parallel L_{PEAK} = 0.5 \parallel M_{PRESS} = 1.0$

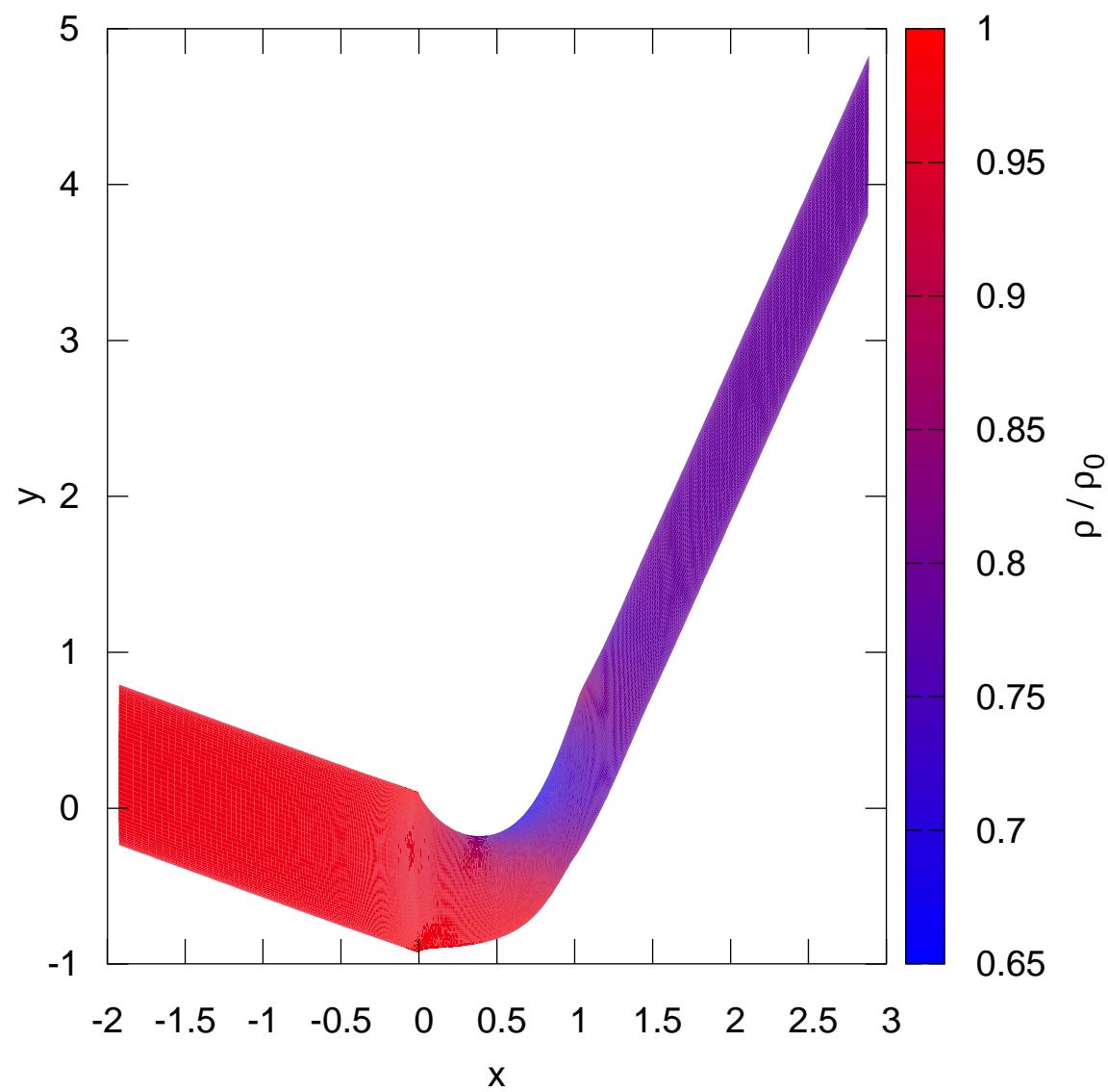


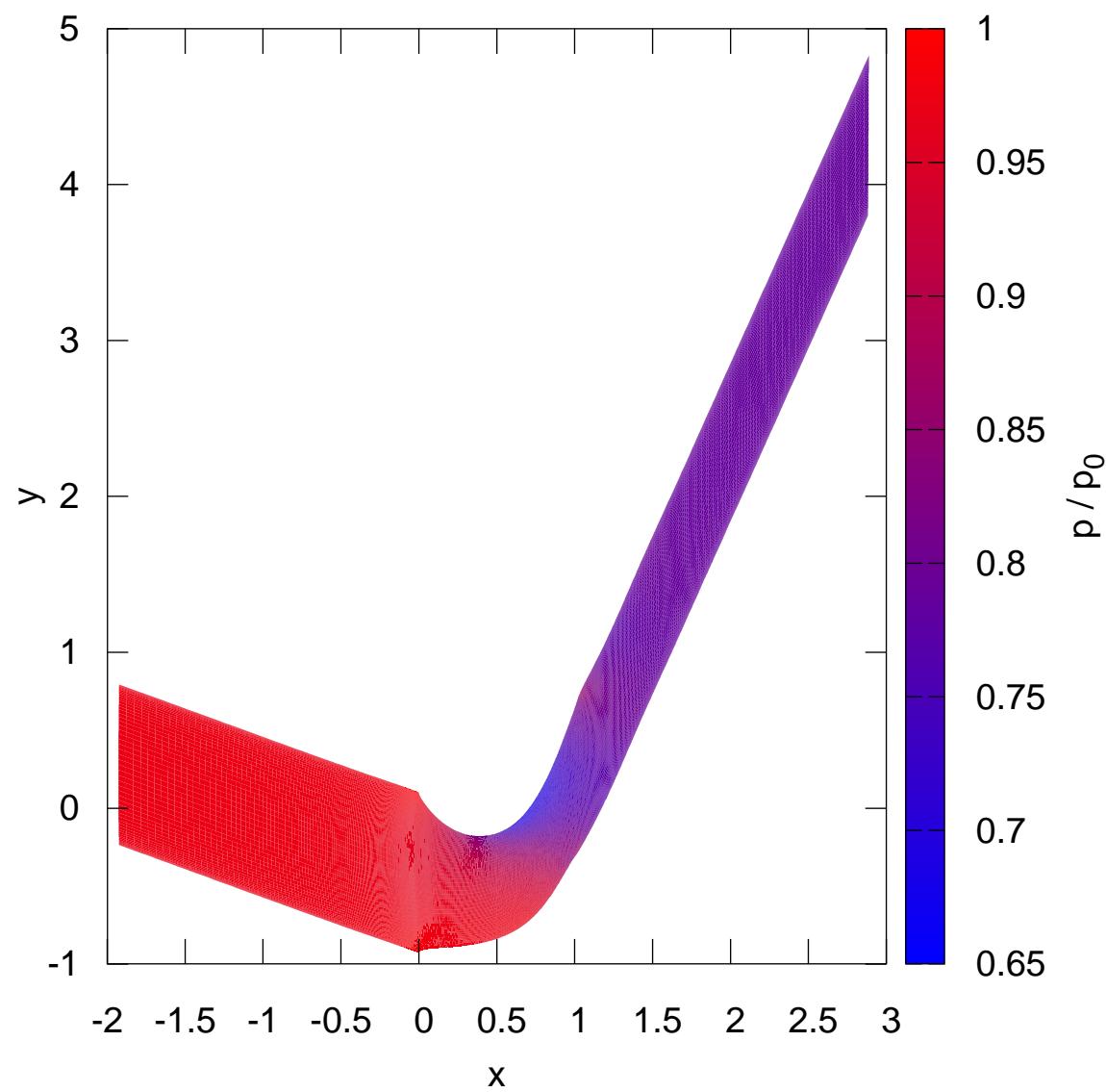
$$\alpha_1 = -20.0^\circ \parallel \alpha_2 = 65.0^\circ \parallel M_2 = 0.7 \parallel s = 1.031 \parallel Re = 600000.0$$

$$M_{LE} = 1.2 \parallel M_{PEAK} = 1.4 \parallel L_{PEAK} = 0.5 \parallel M_{PRESS} = 1.0$$

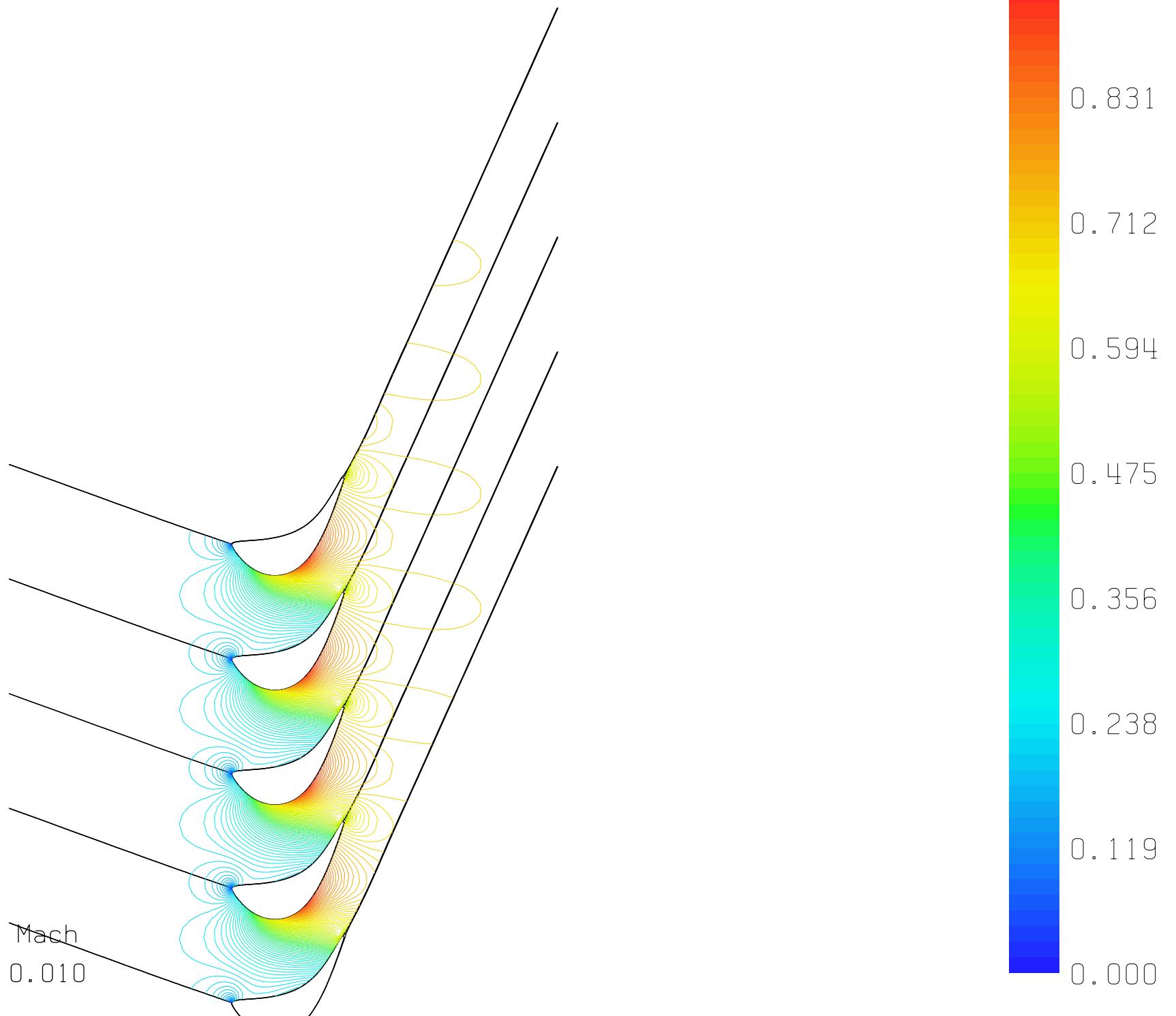




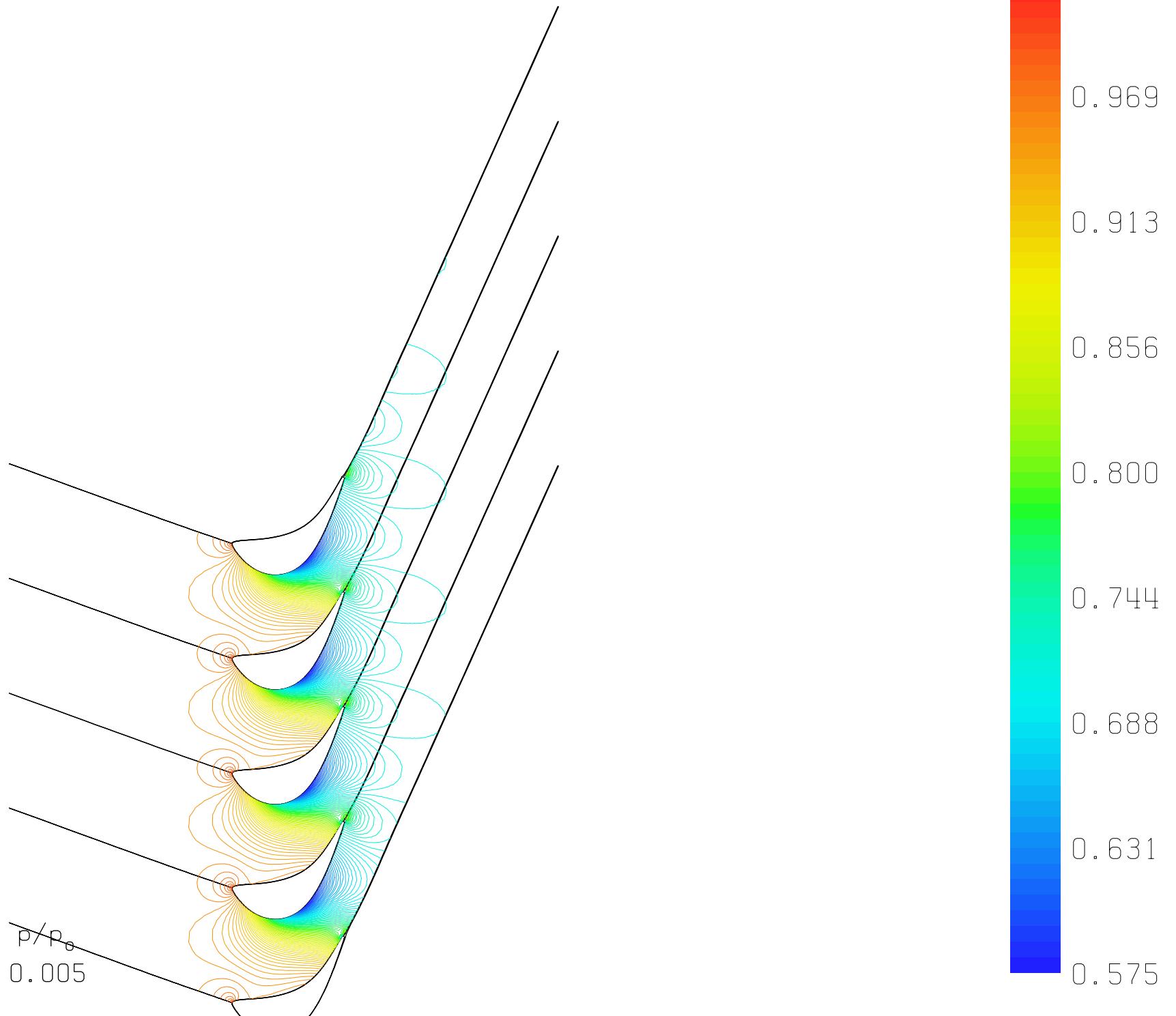




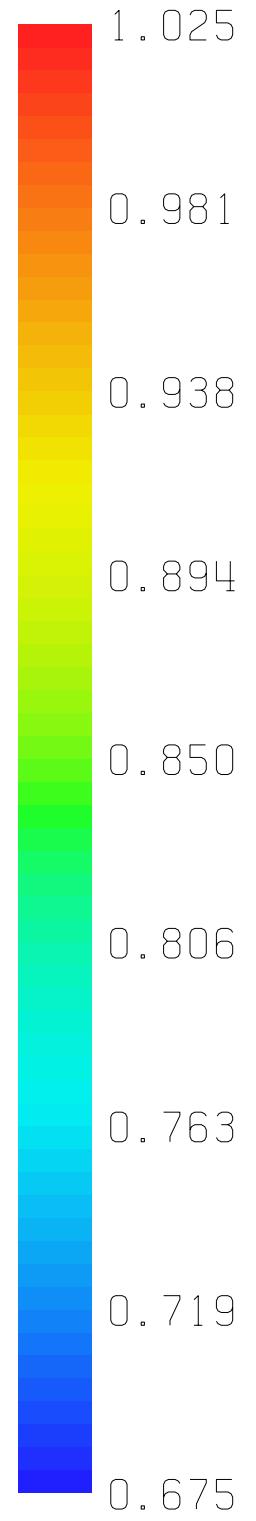
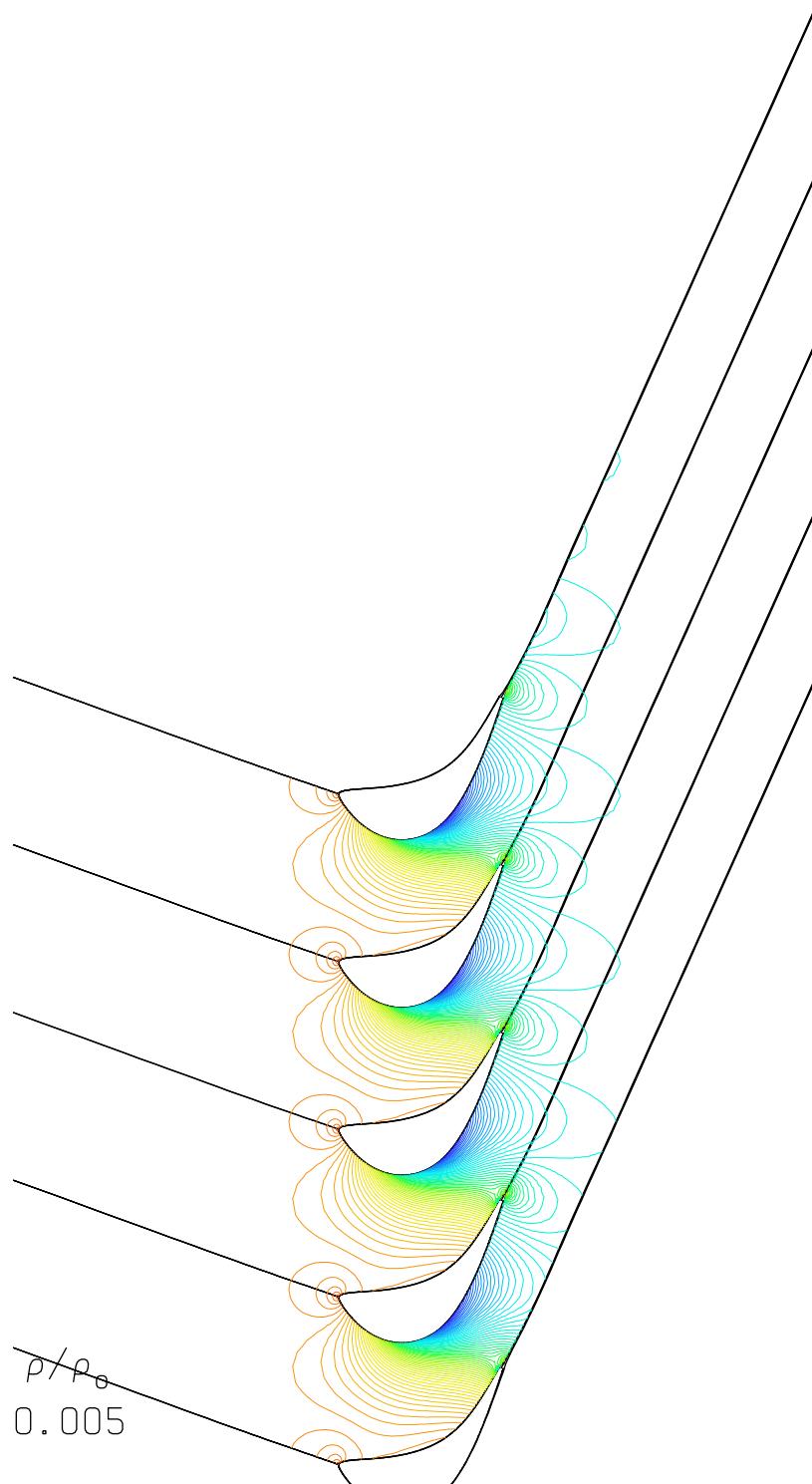
Contours of Mach
Increment = 0.010

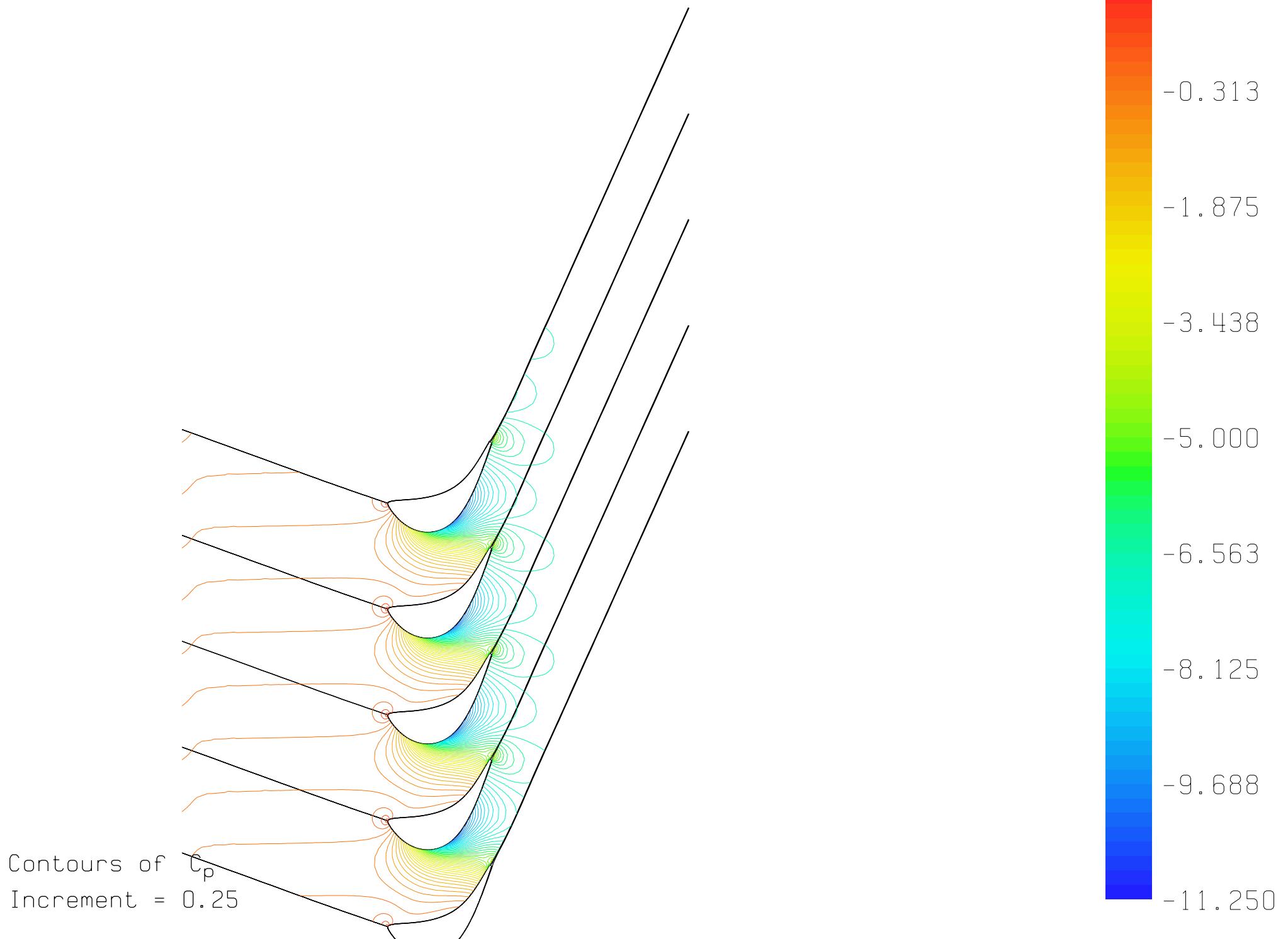


Contours of p/p_0
Increment = 0.005

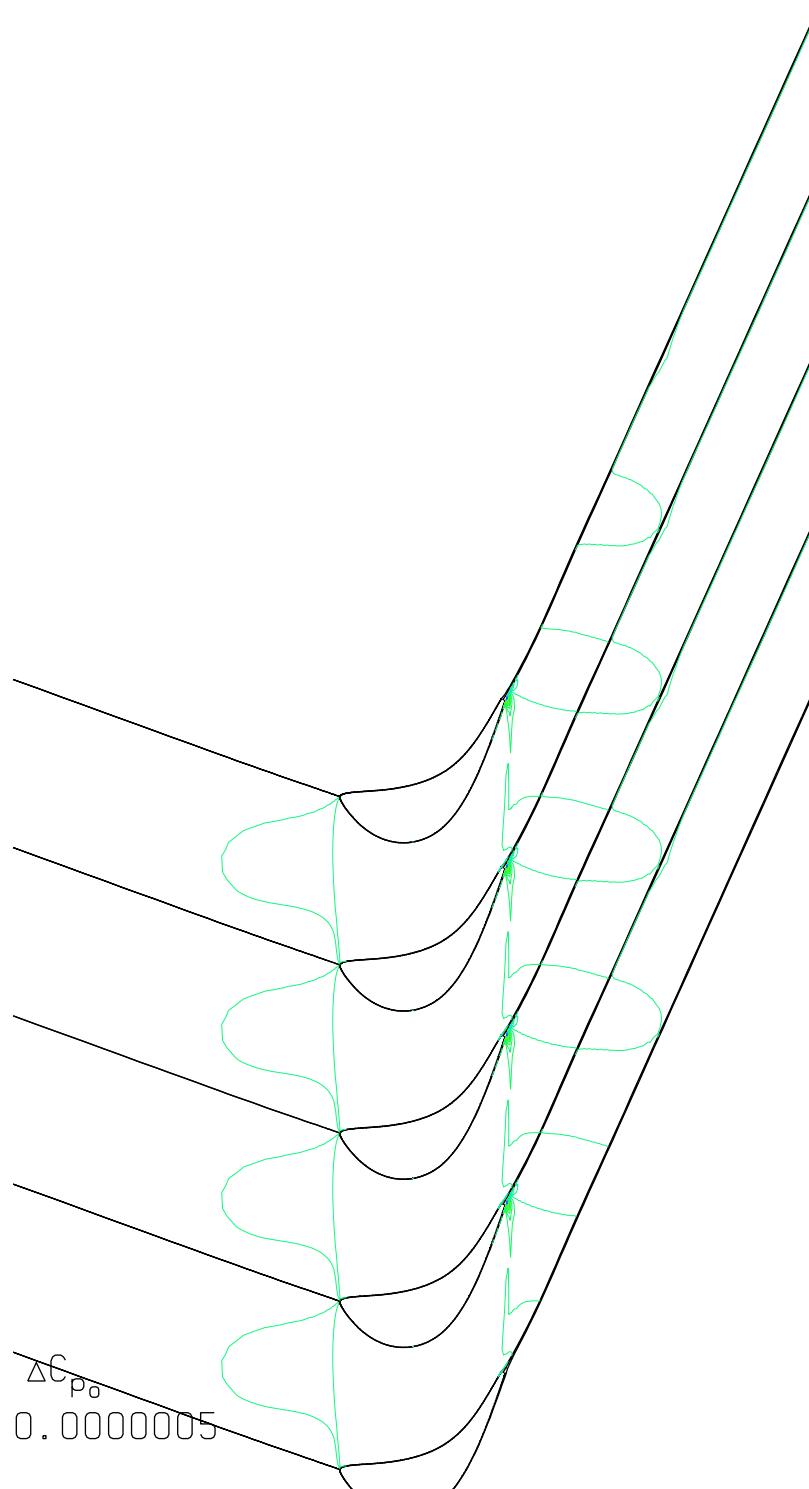


Contours of ρ/ρ_0
Increment = 0.005





Contours of ΔC_{p_0}
Increment = 0.0000005



Contours of $\Delta p_o / p_o$
Increment = 0.000000025

