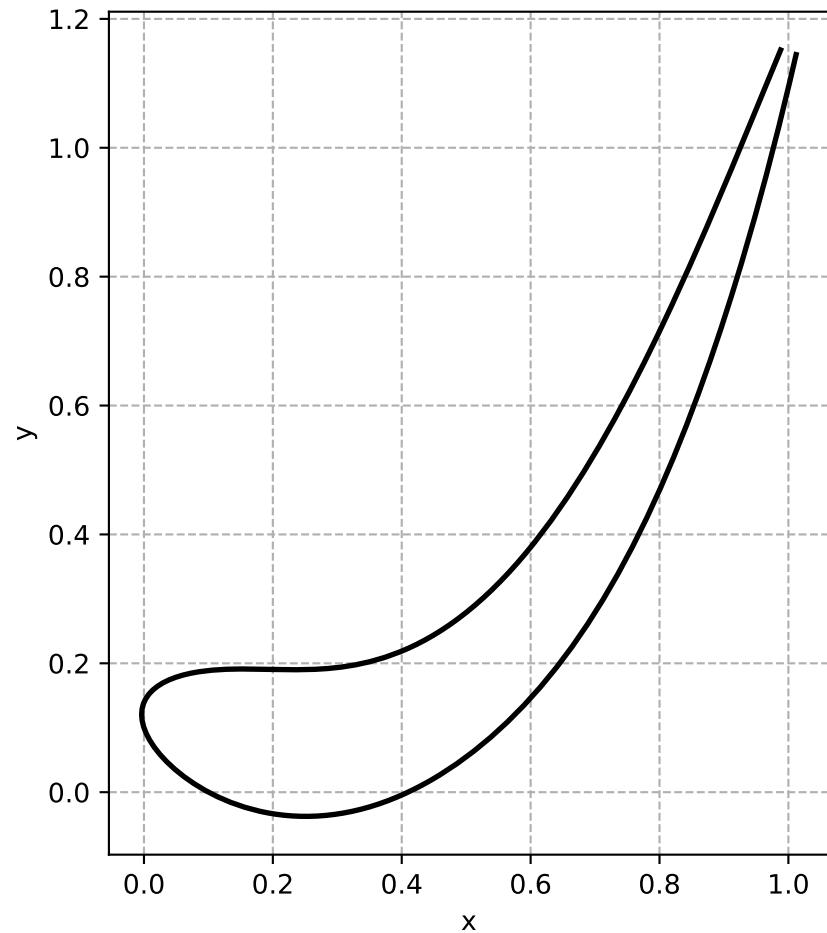
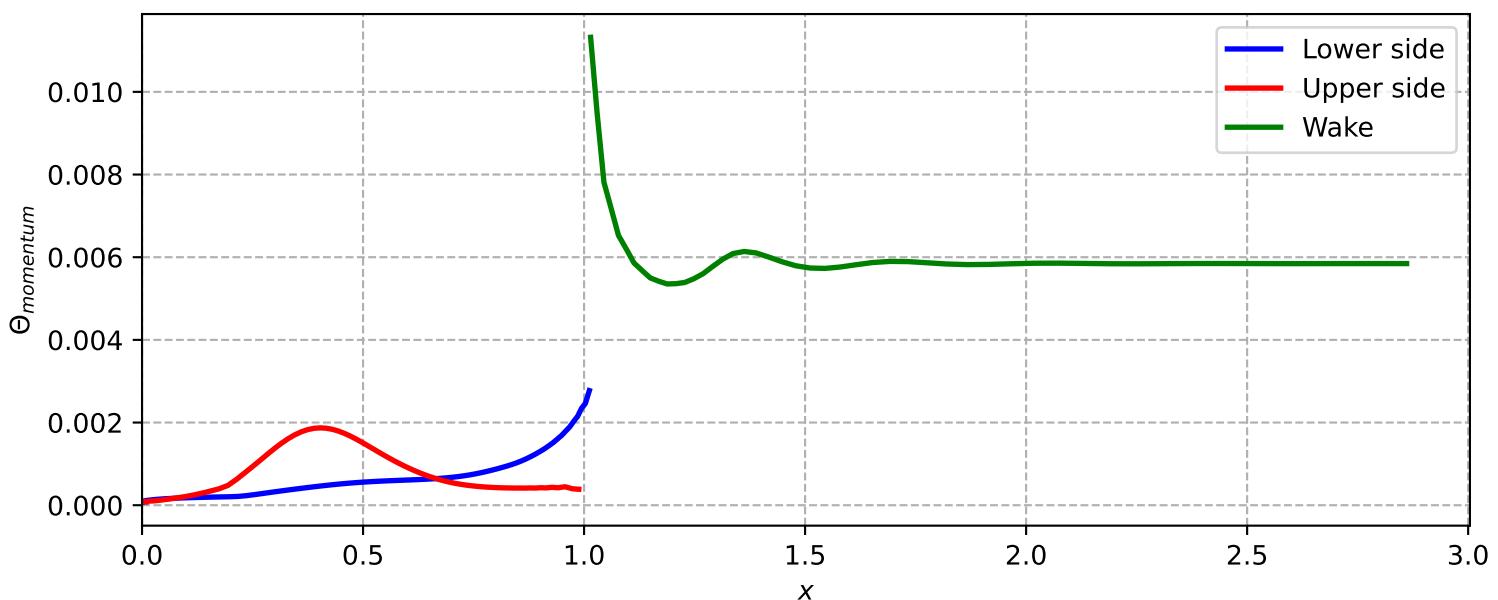
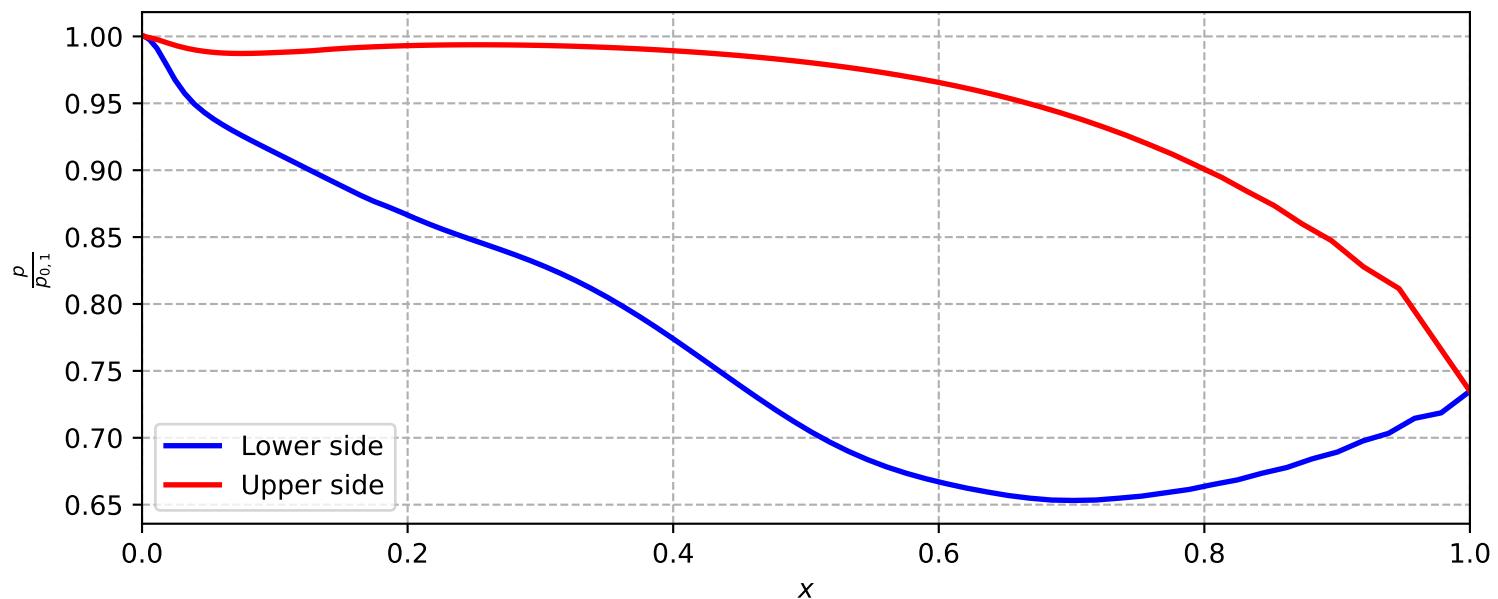
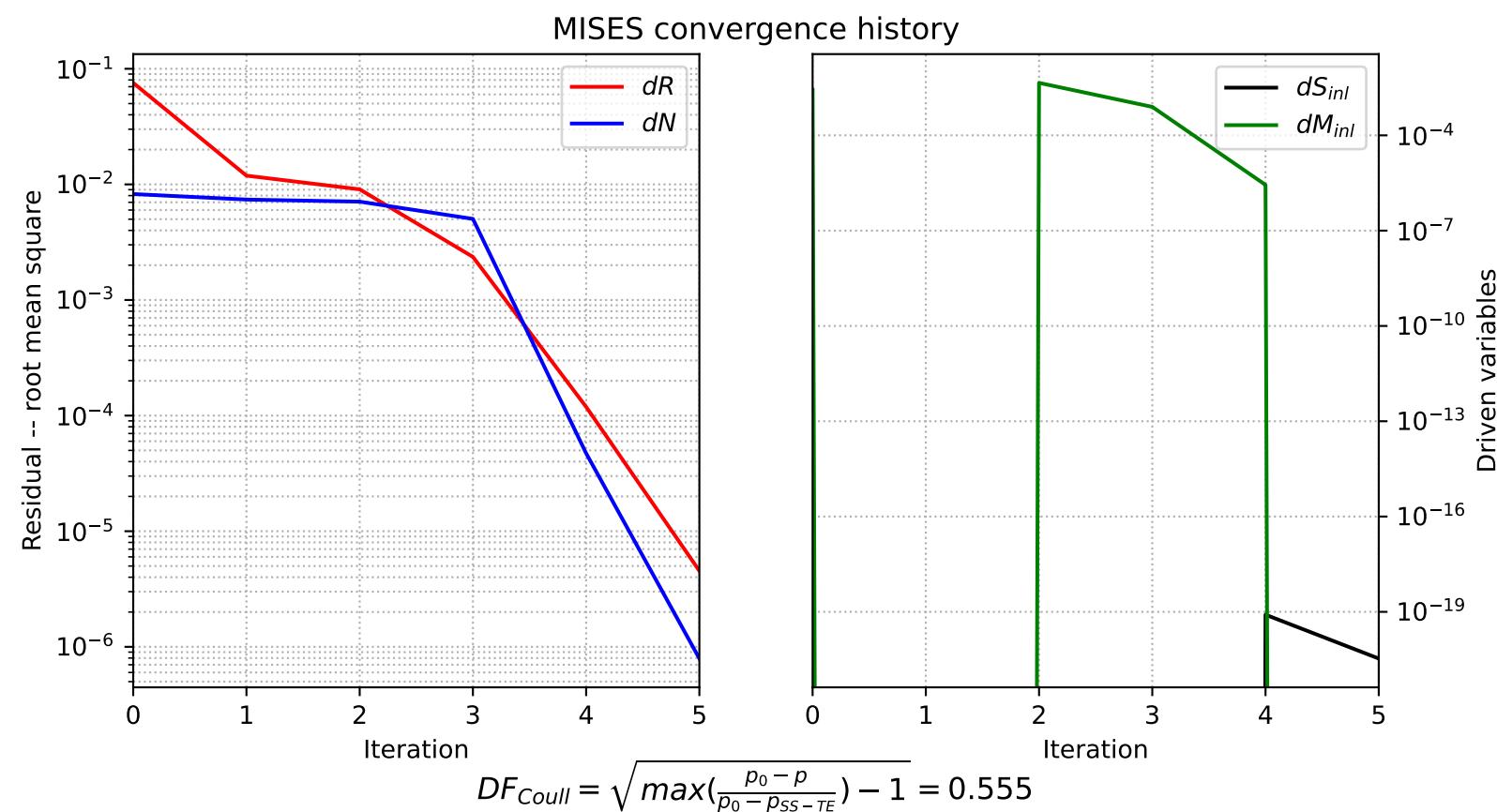
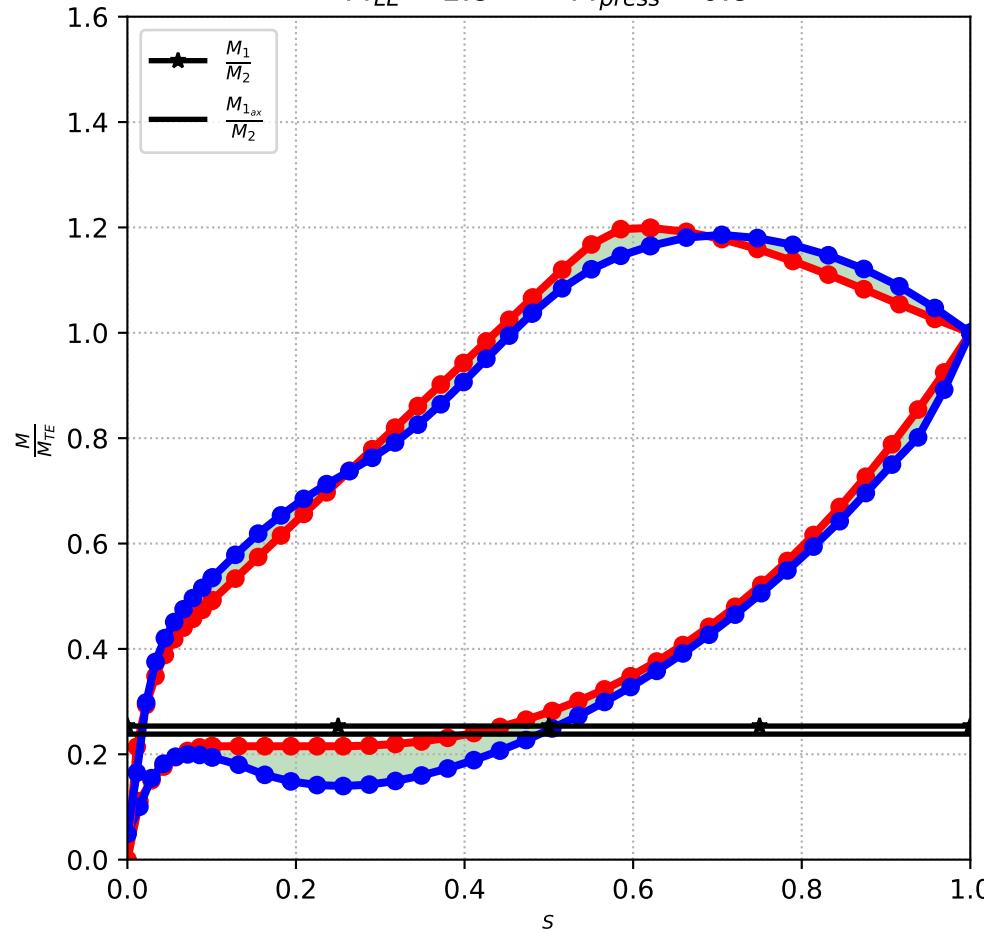


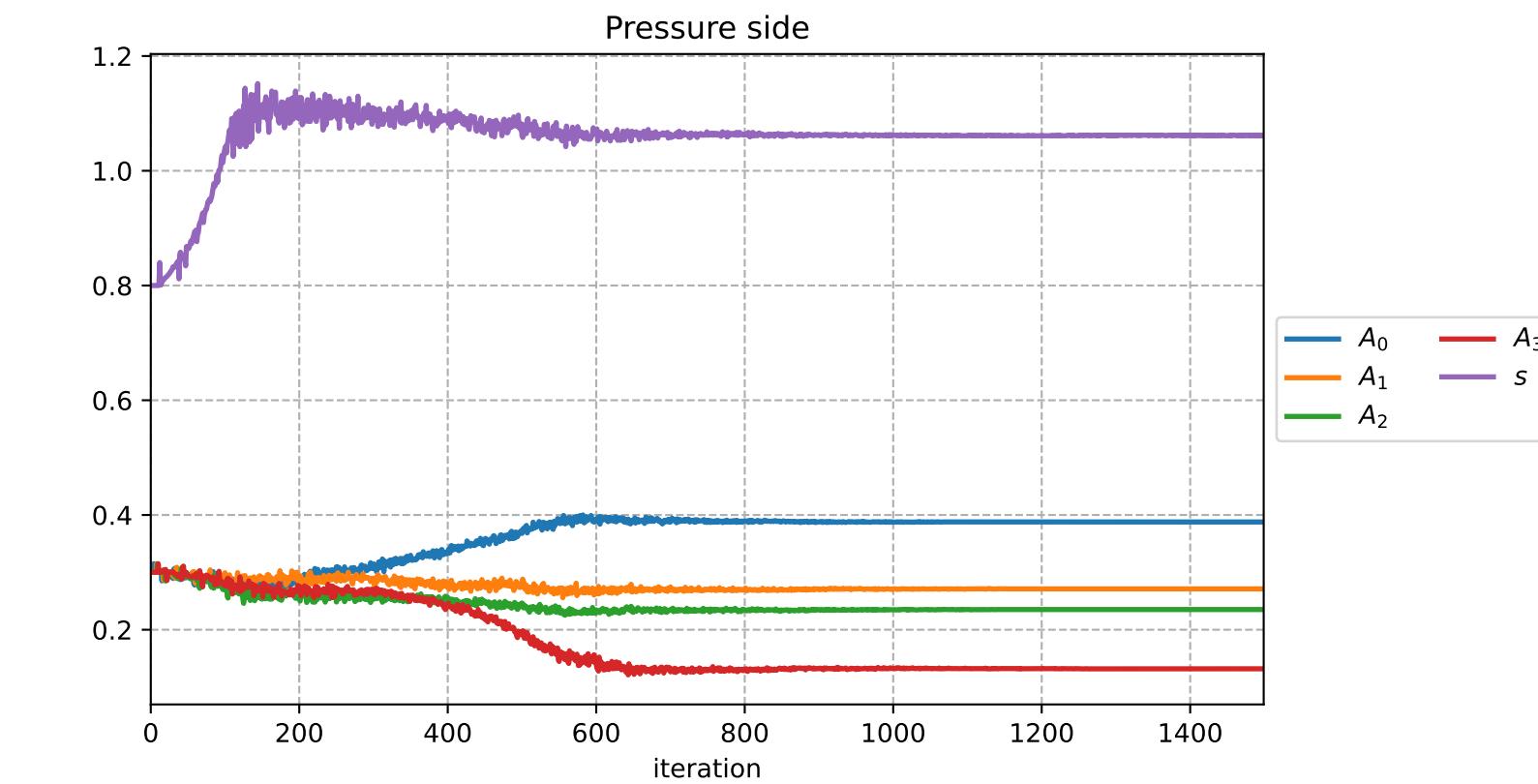
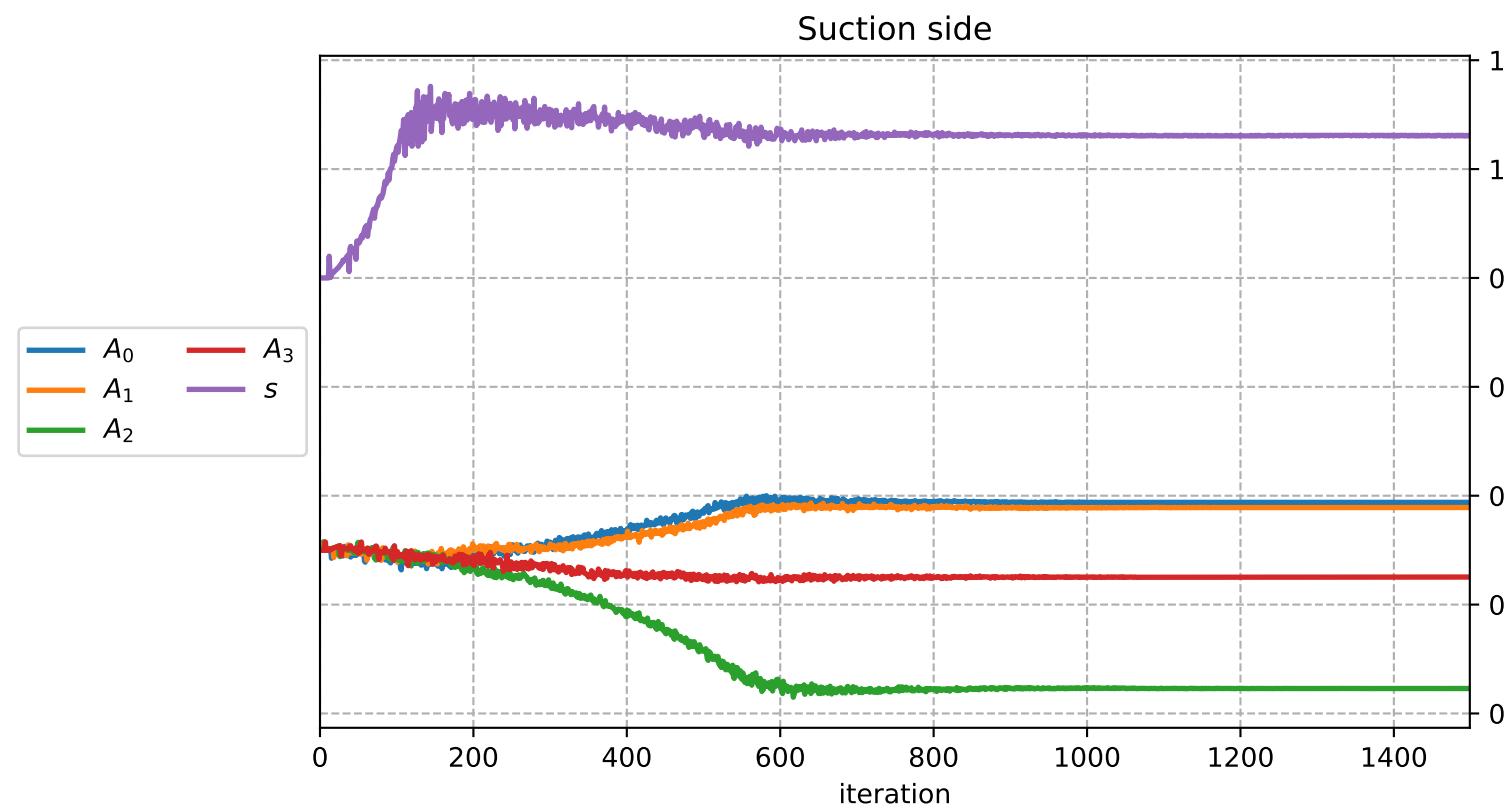
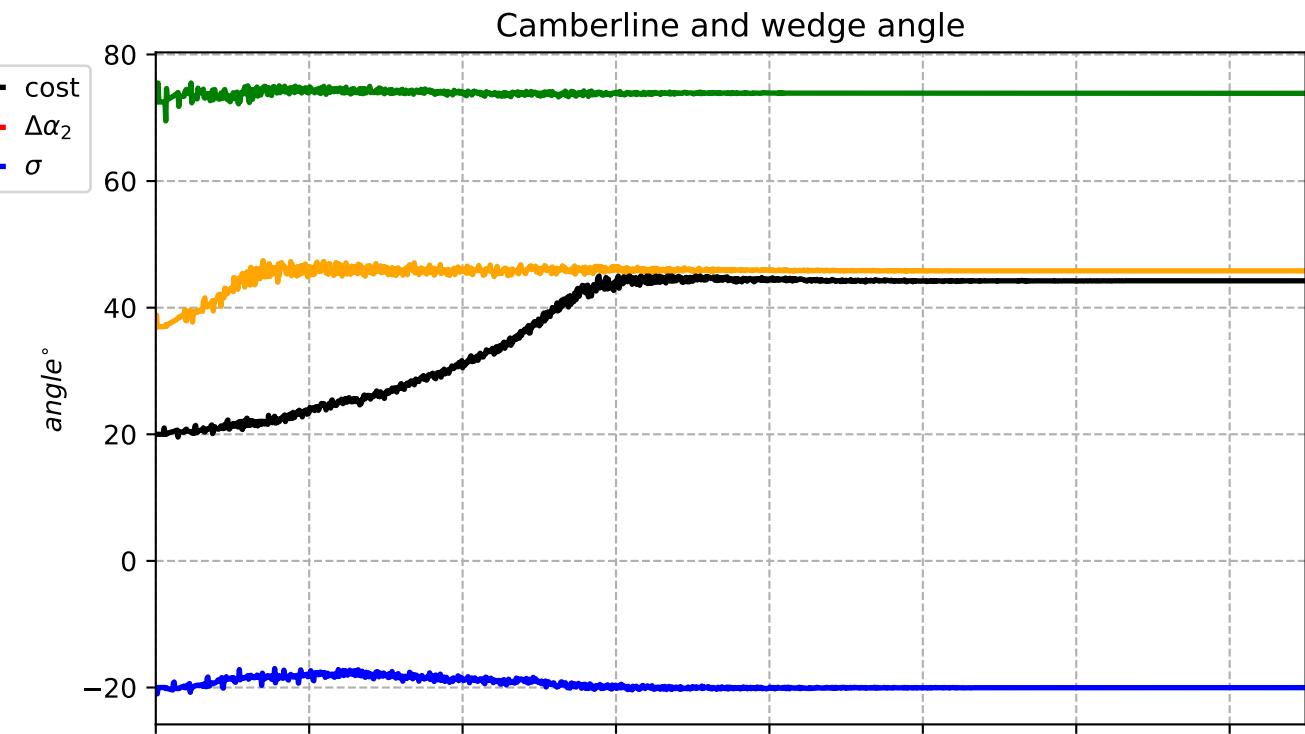
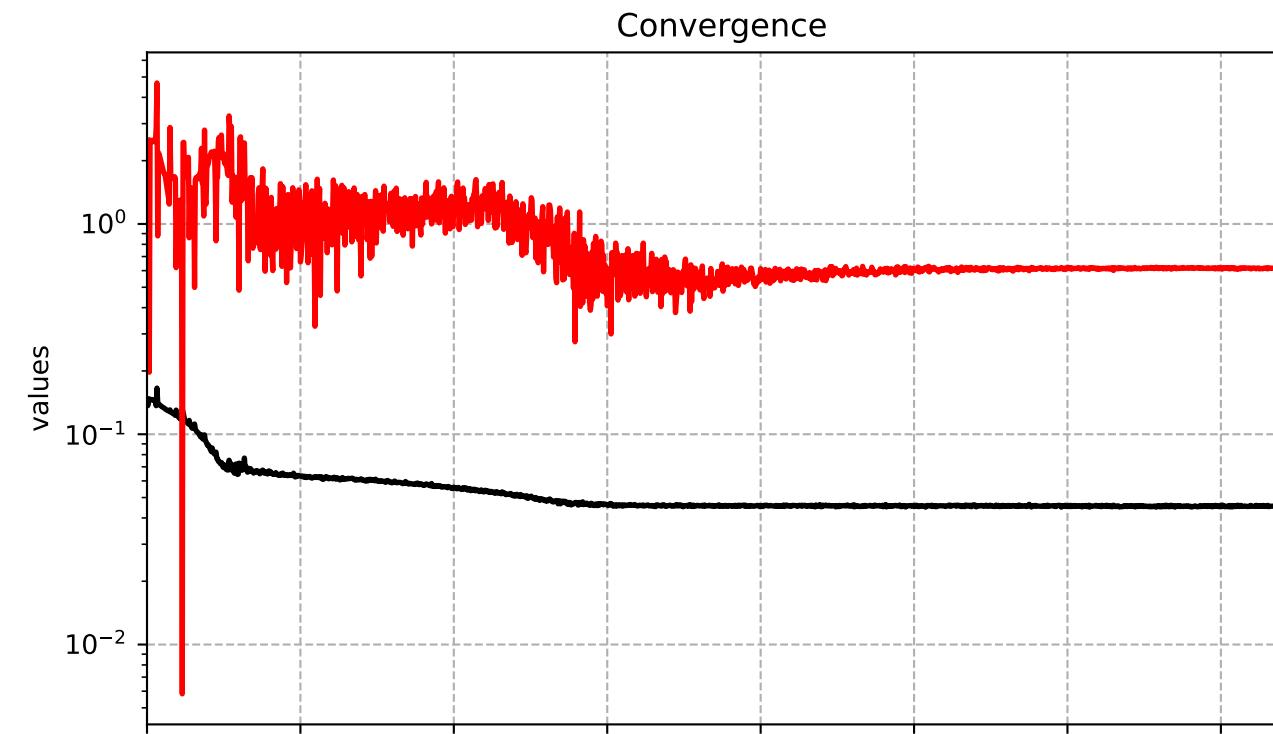
#0122 NAME: VKIblade
 $\alpha_1 = -20.000^\circ$ $\alpha_2 = \text{KUTTA CONDITION}$
CHINL = 2.000 CHOUT = 2.000
PITCH = 1.056 $\beta = 44.630^\circ$
 $R_{LE} = 0.051$ $\zeta_{TE} = 0.025$



$RMSE = 3.669E - 02$
 $RMSE_{PS} = 3.960E - 02$ $RMSE_{SS} = 3.371E - 02$
 $\alpha_{2,target} = 72.50^\circ$ $\Delta\alpha_2 = 0.77^\circ$ $\alpha_{2,real} = 71.73^\circ$
 $M_{peak} = 1.2$ $L_{peak} = 0.6$
 $M_{LE} = 1.8$ $M_{press} = 0.8$

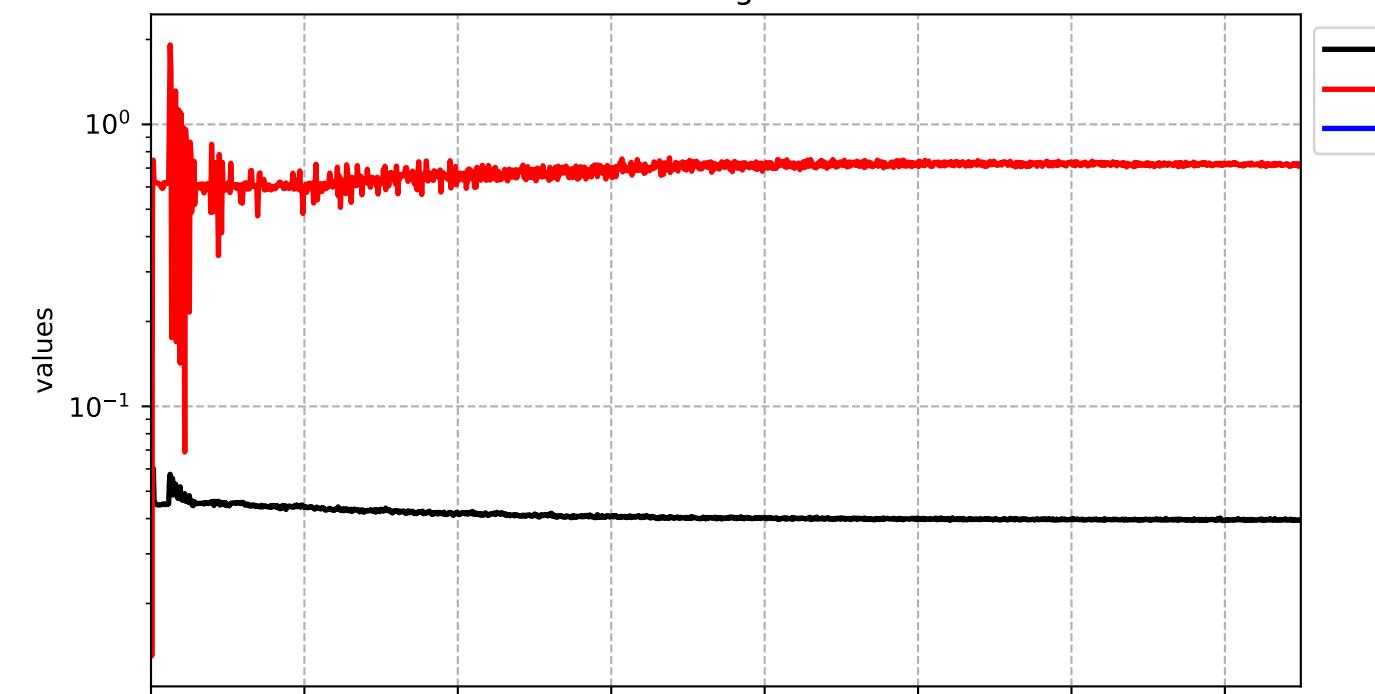


Optimization: 1
Method: Nelder-Mead

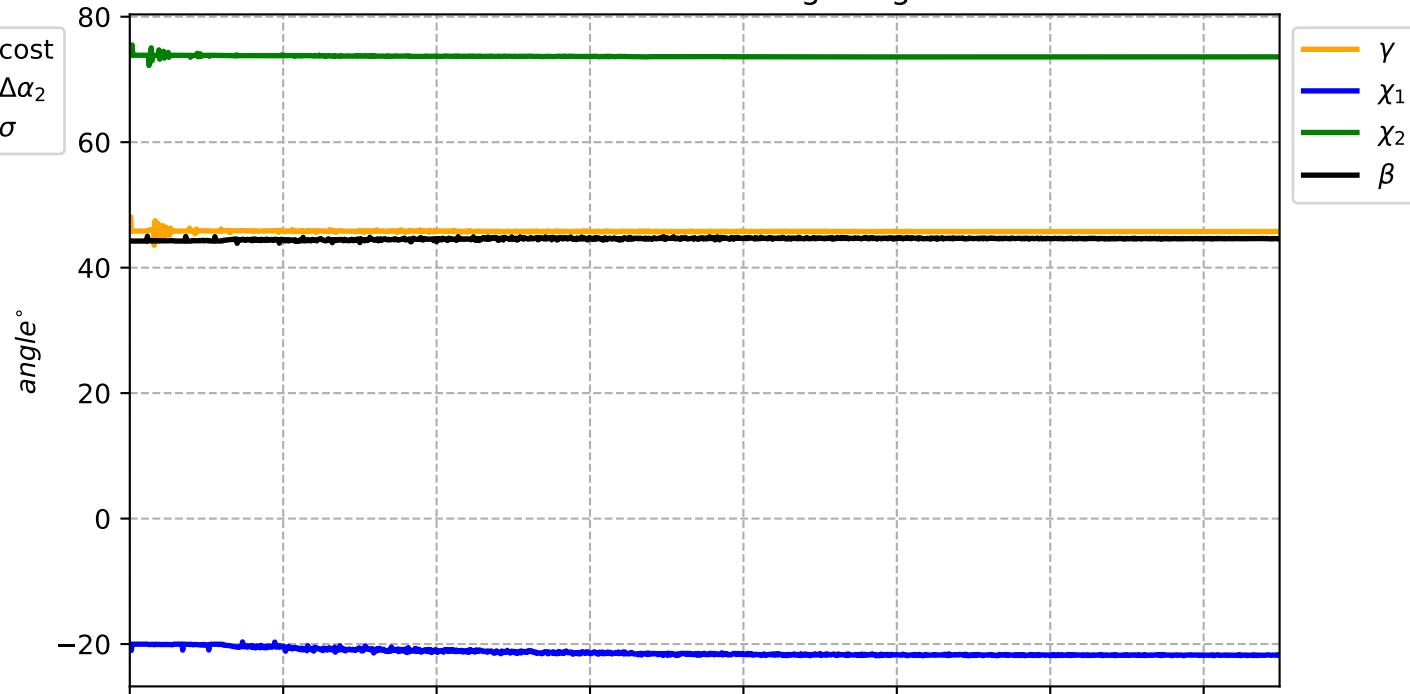


Optimization: 2
Method: Nelder-Mead

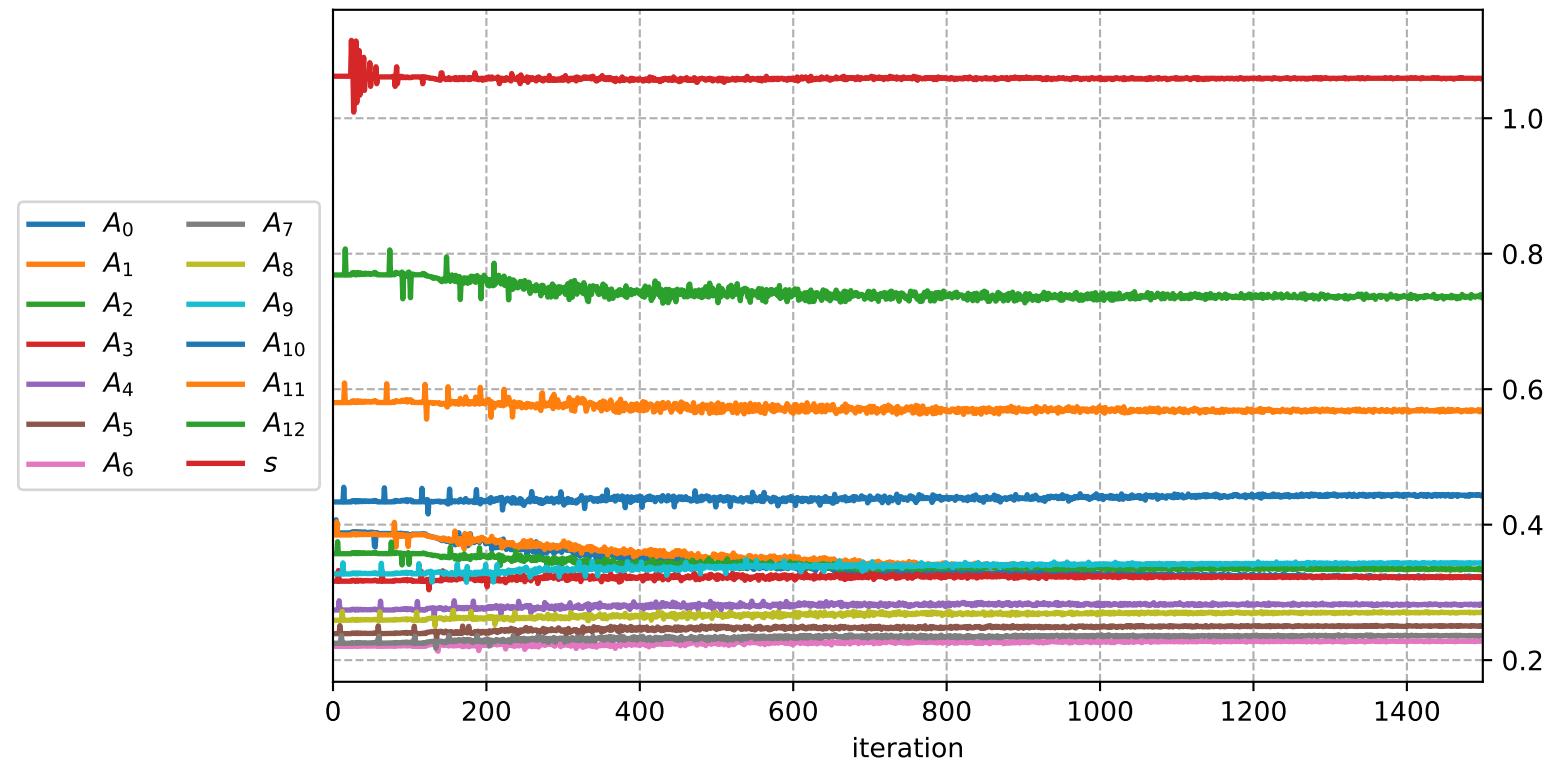
Convergence



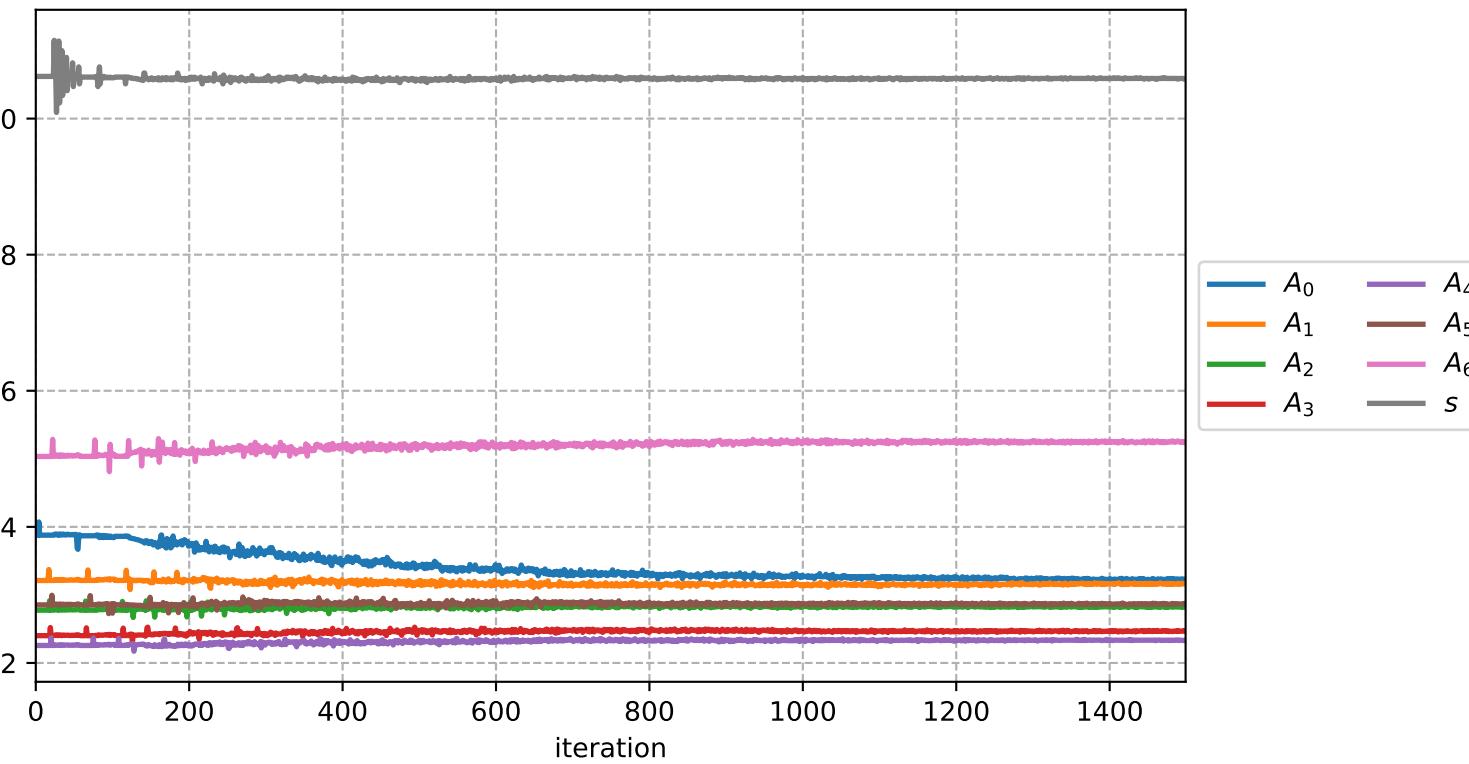
Camberline and wedge angle



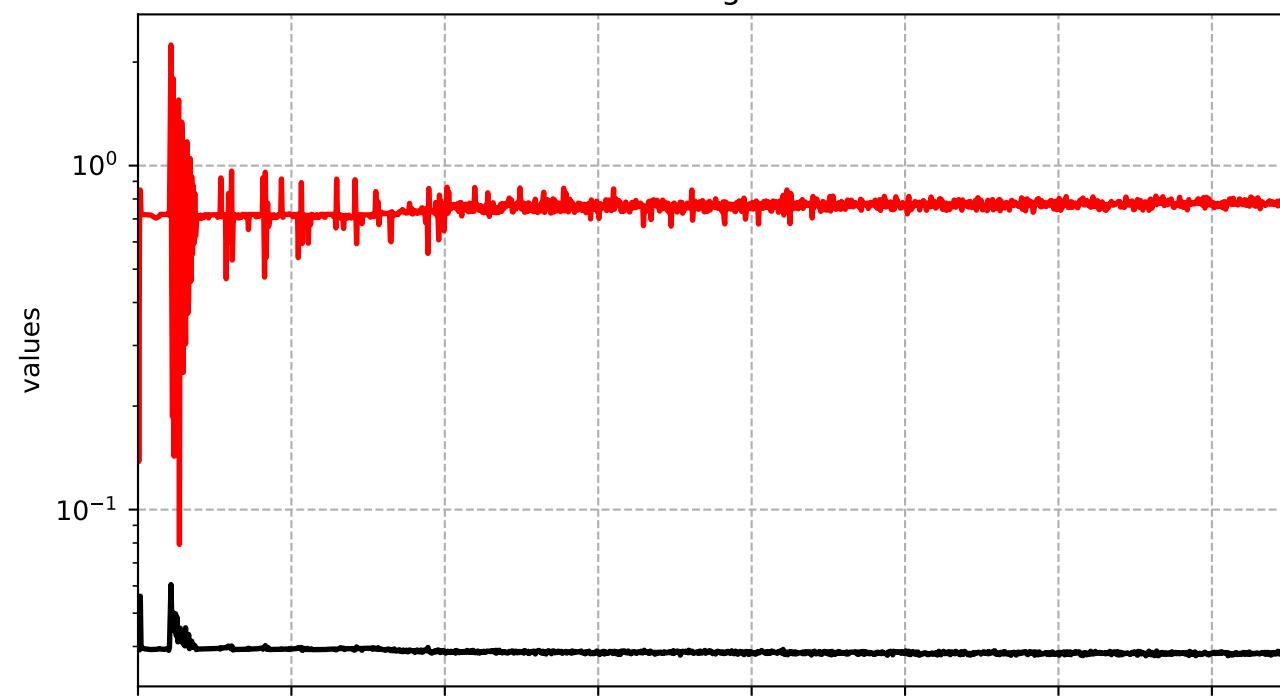
Suction side



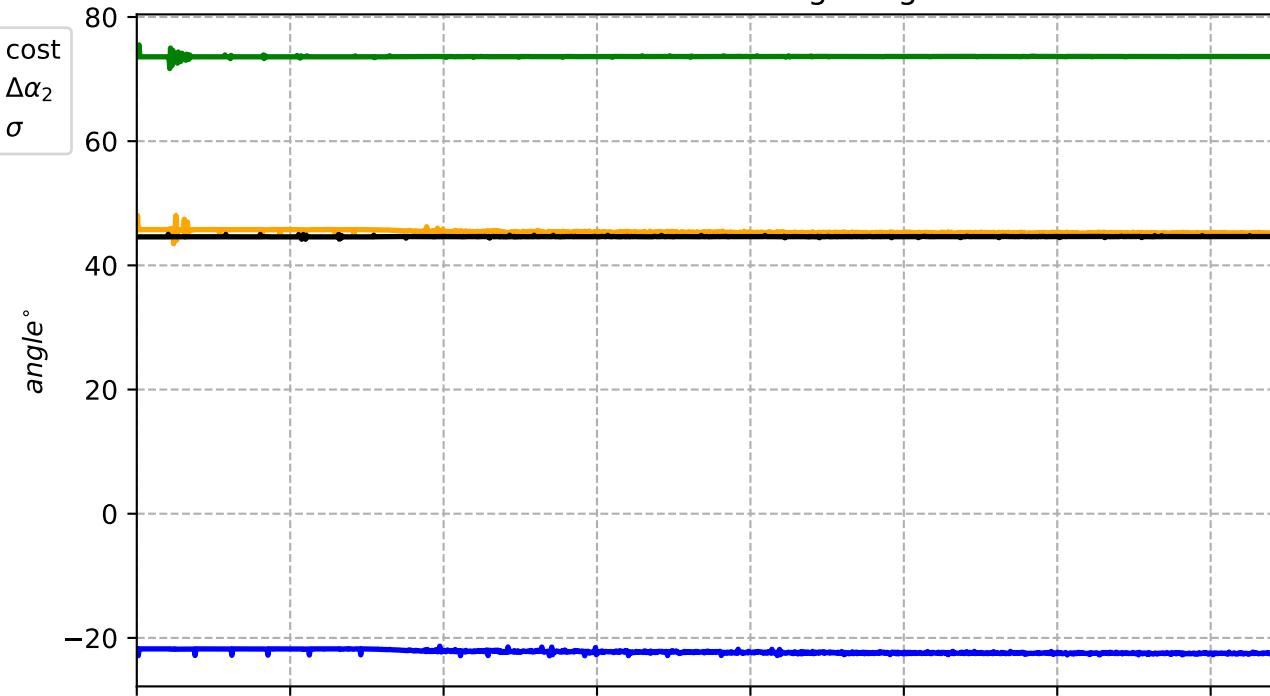
Pressure side



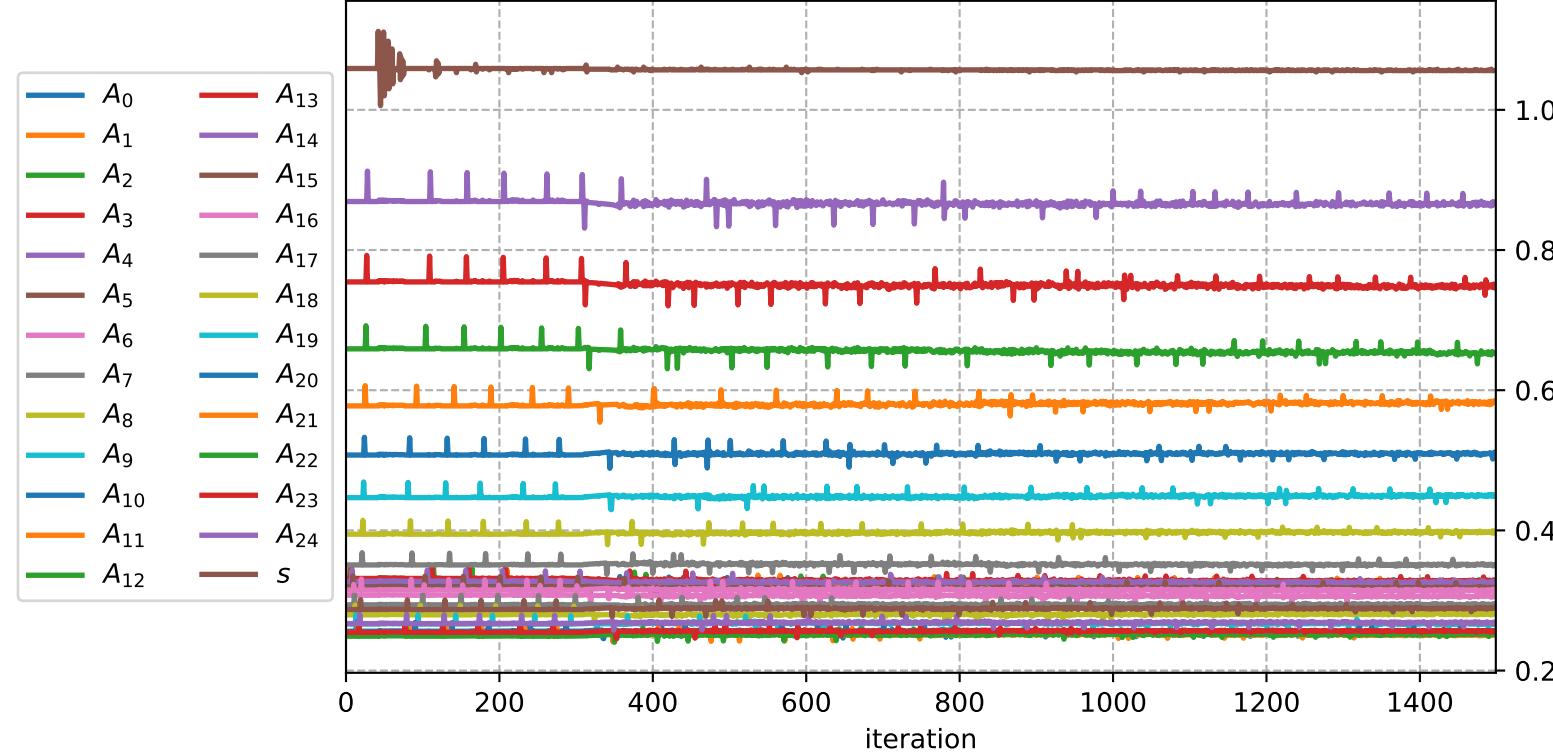
Convergence



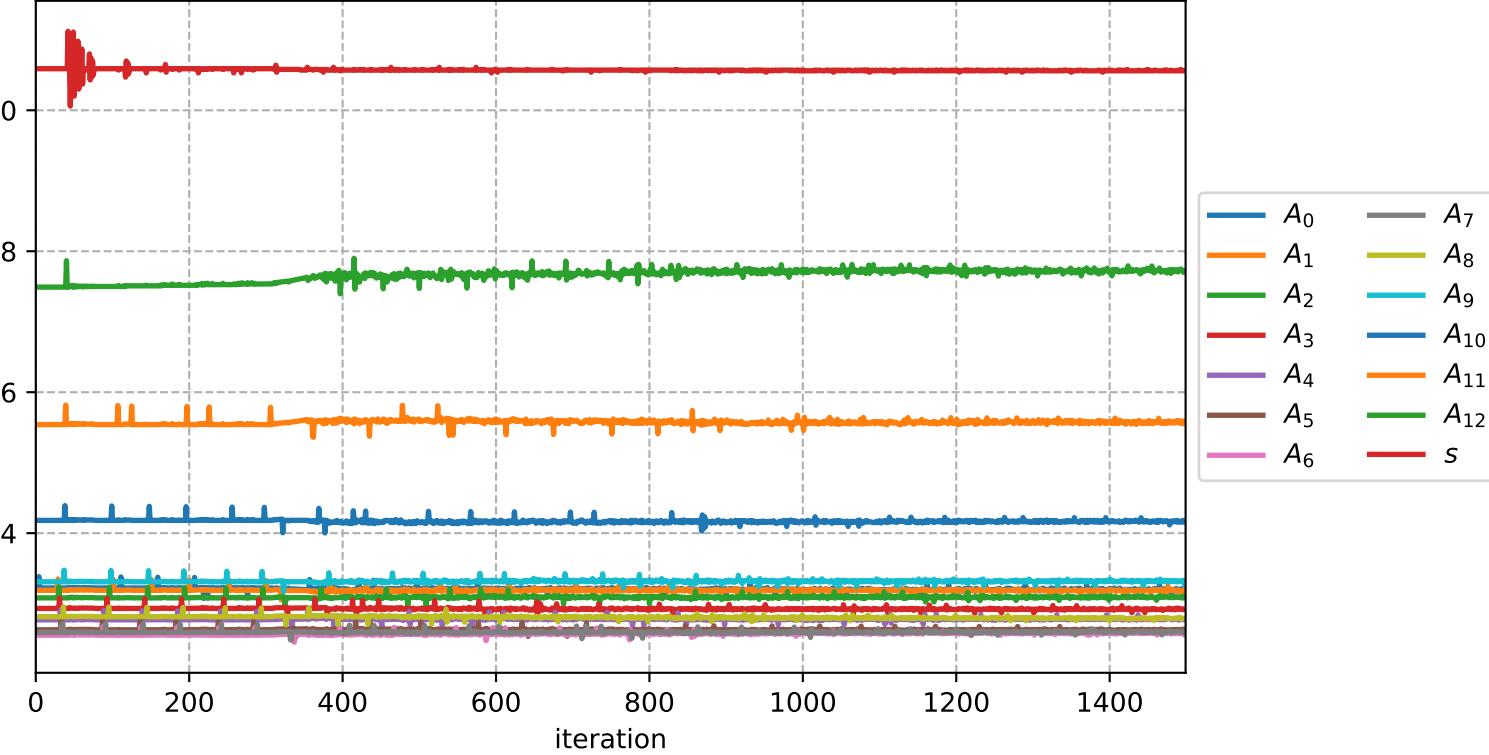
Camberline and wedge angle

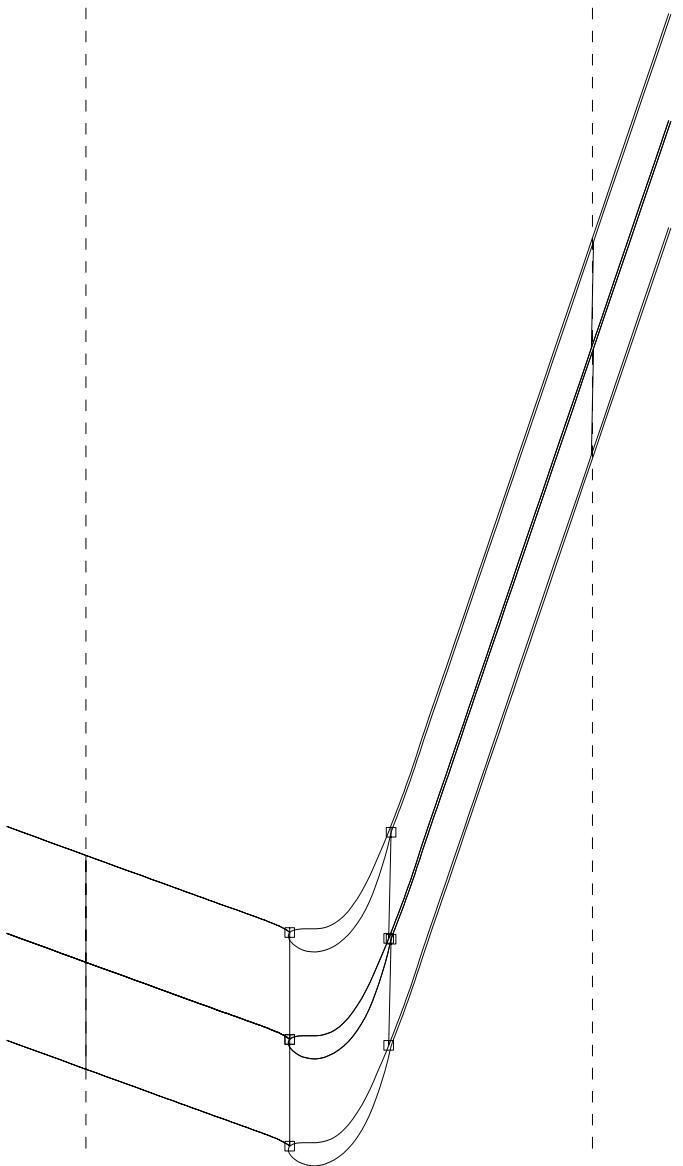


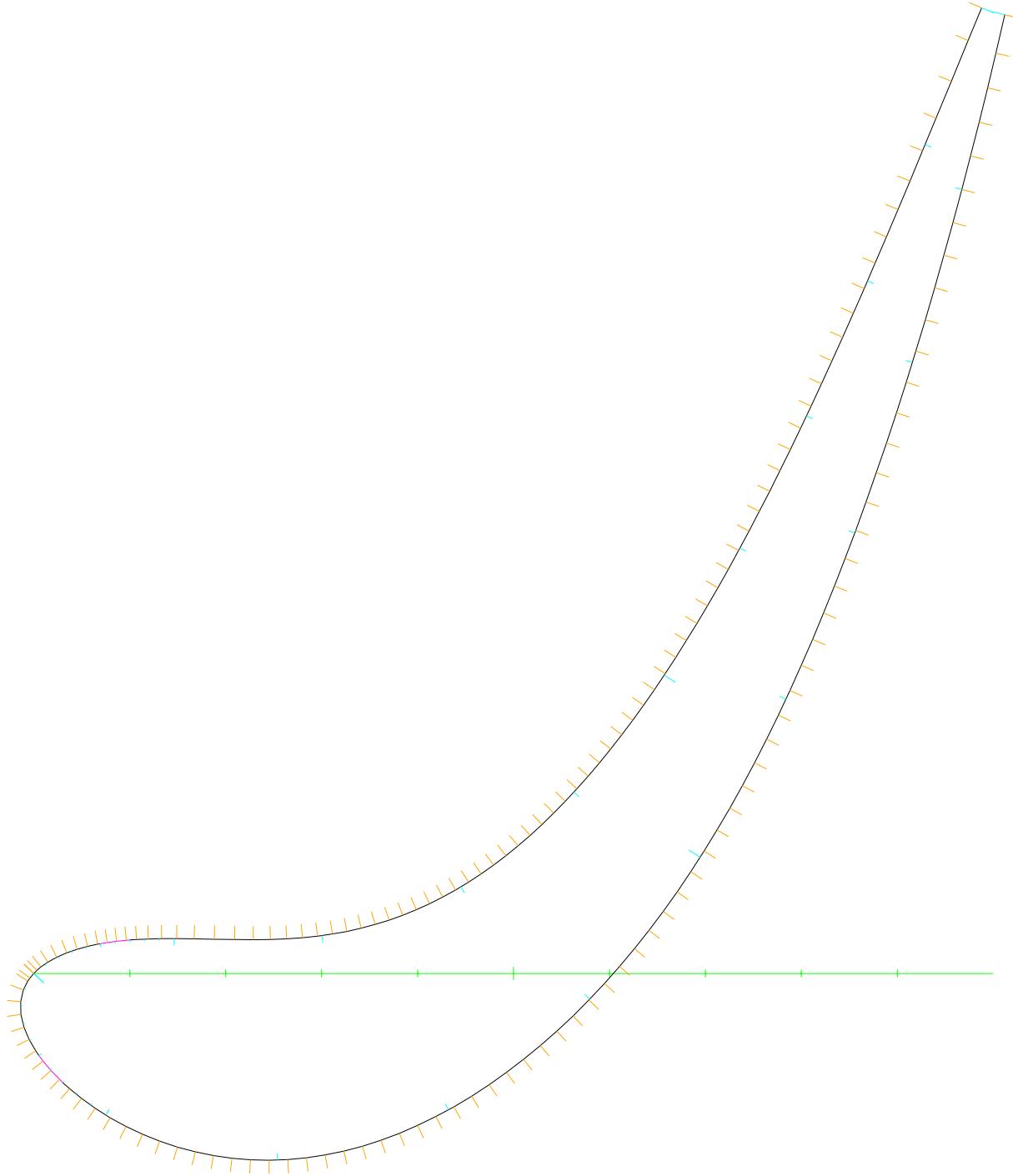
Suction side

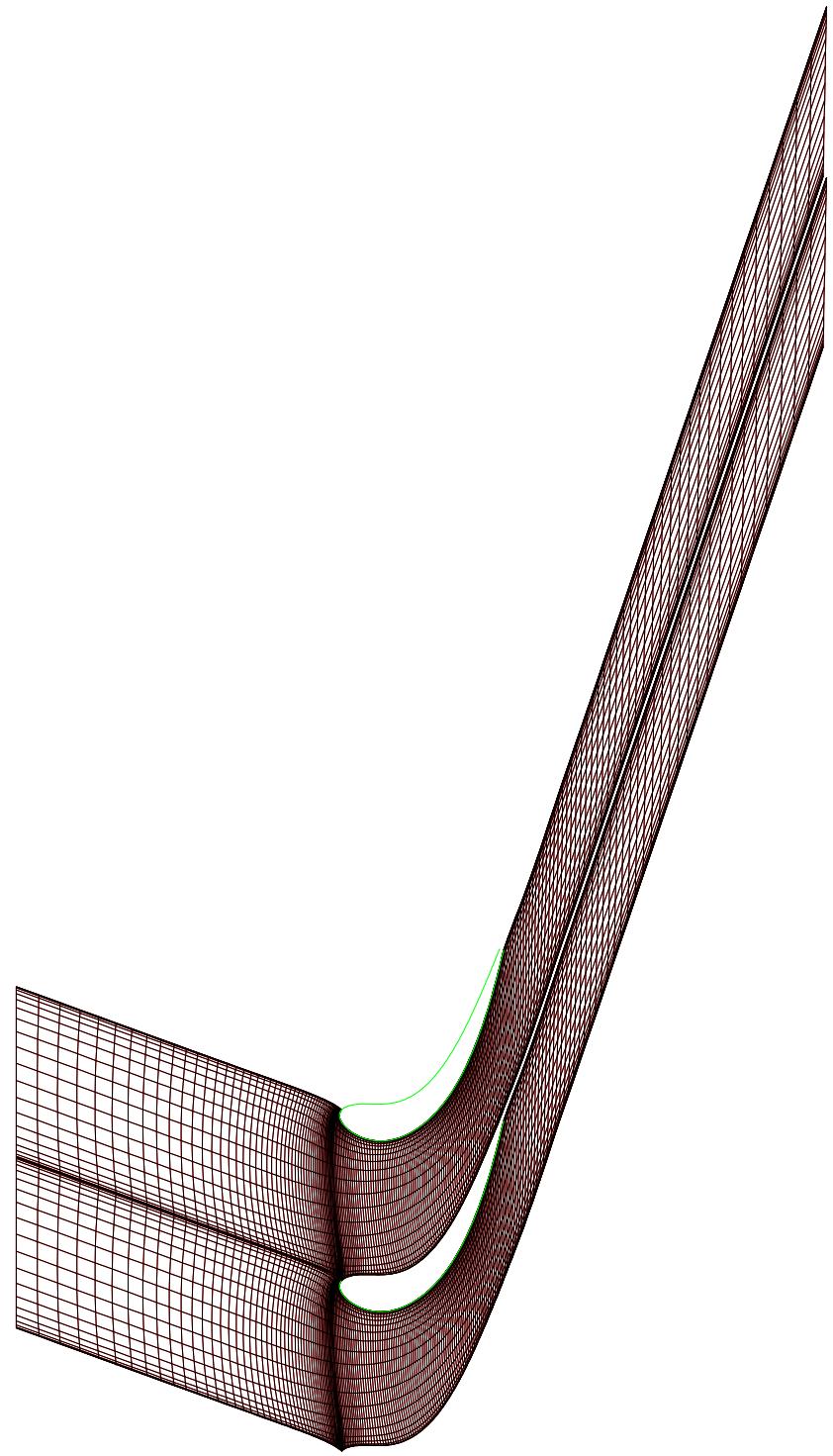


Pressure side



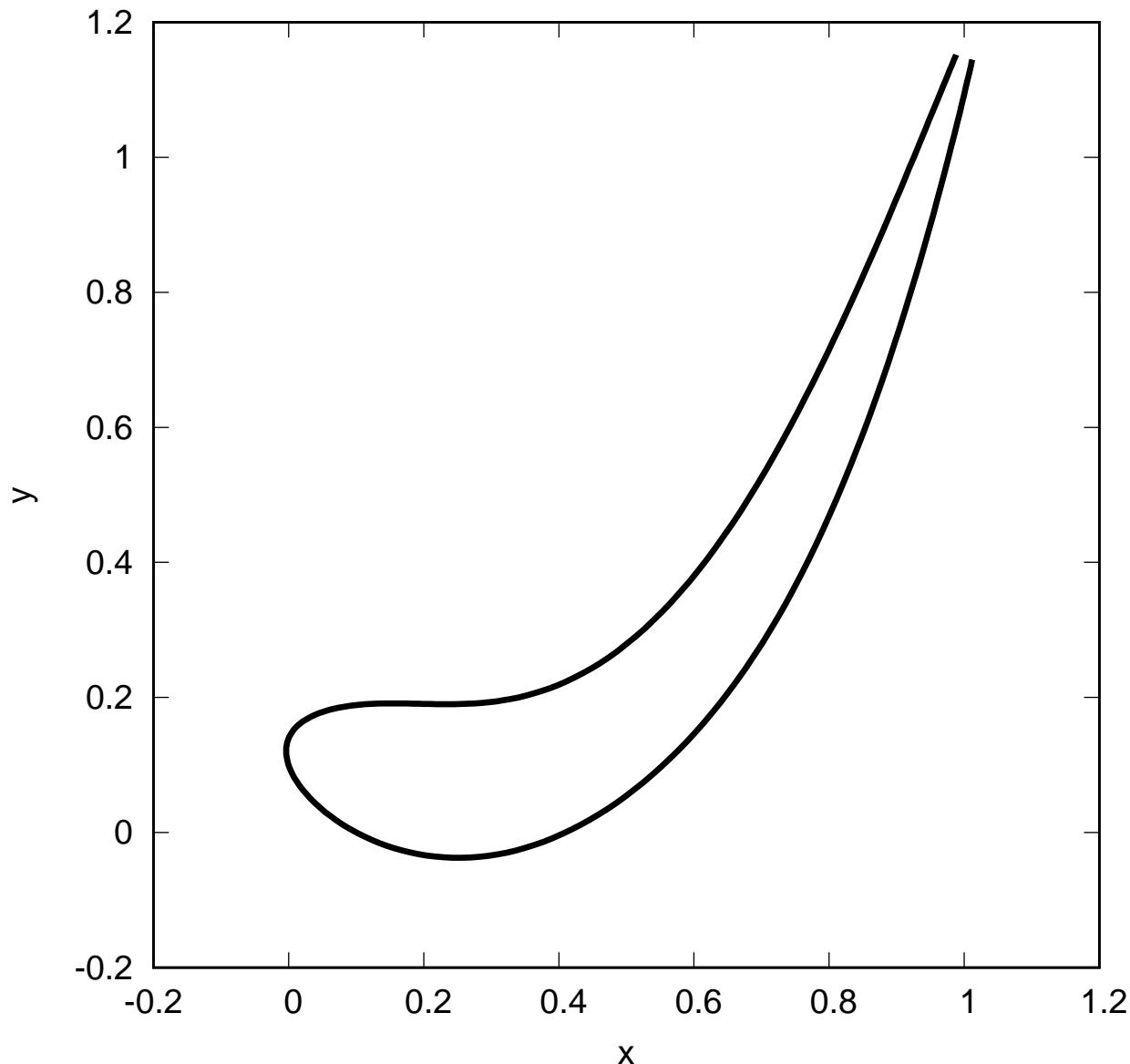






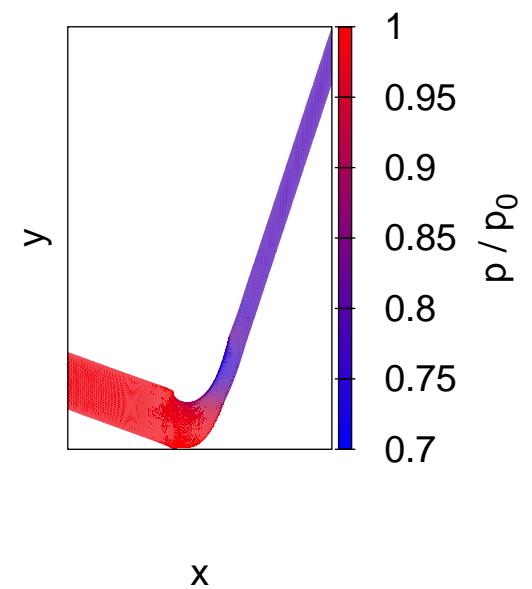
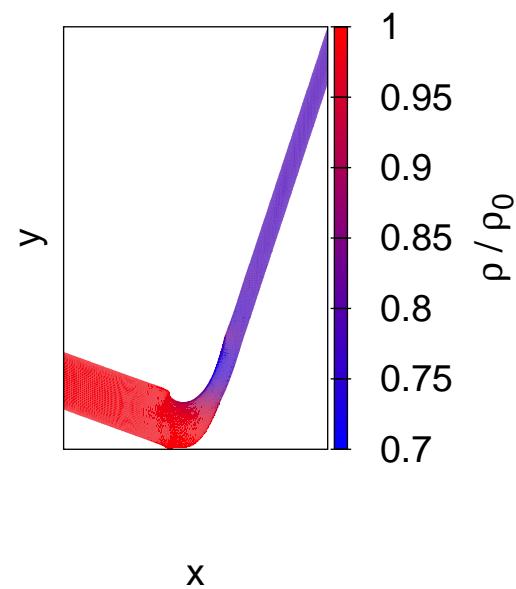
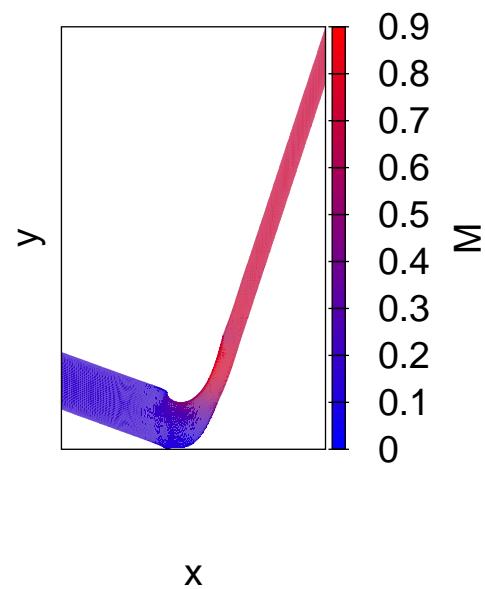
$\alpha_1 = -20.0^\circ \parallel \alpha_2 = 72.5^\circ \parallel M_2 = 0.7 \parallel s = 1.056 \parallel Re = 600000.0$

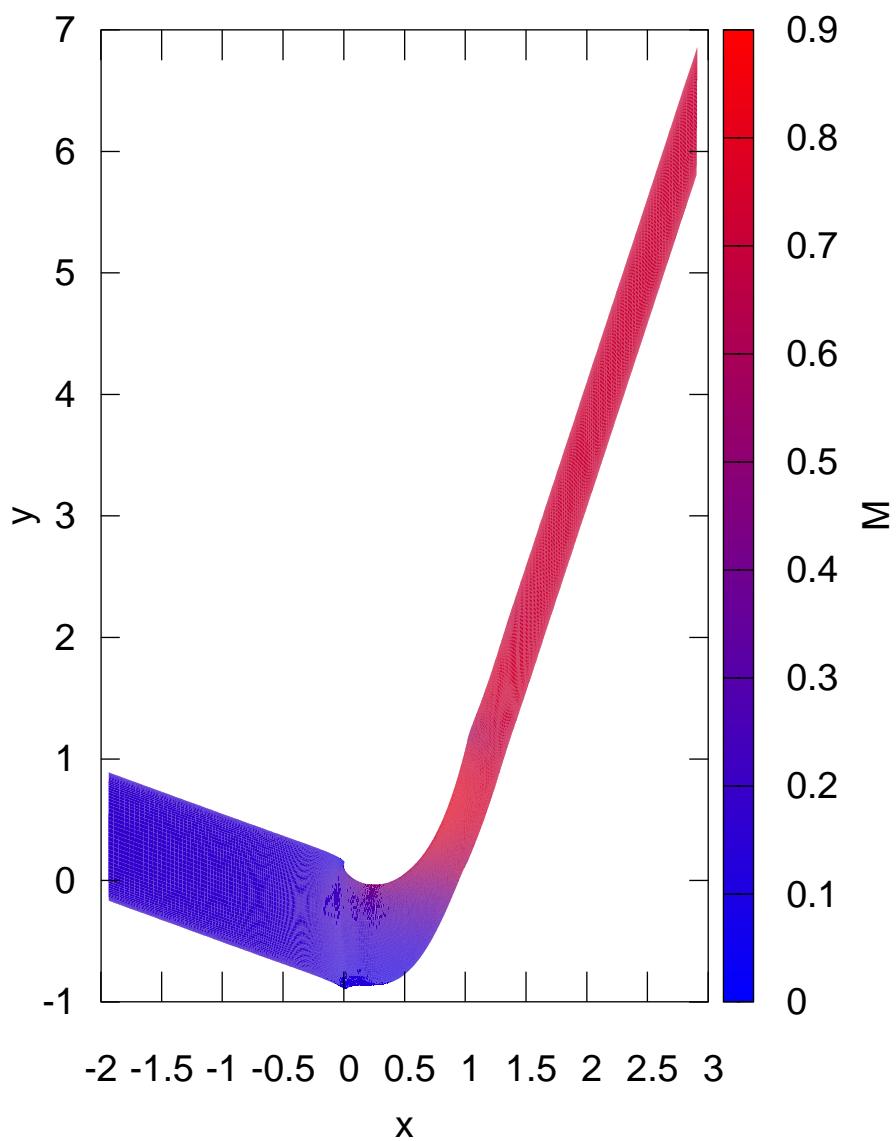
$M_{LE} = 1.8 \parallel M_{PEAK} = 1.2 \parallel L_{PEAK} = 0.6 \parallel M_{PRESS} = 0.8$

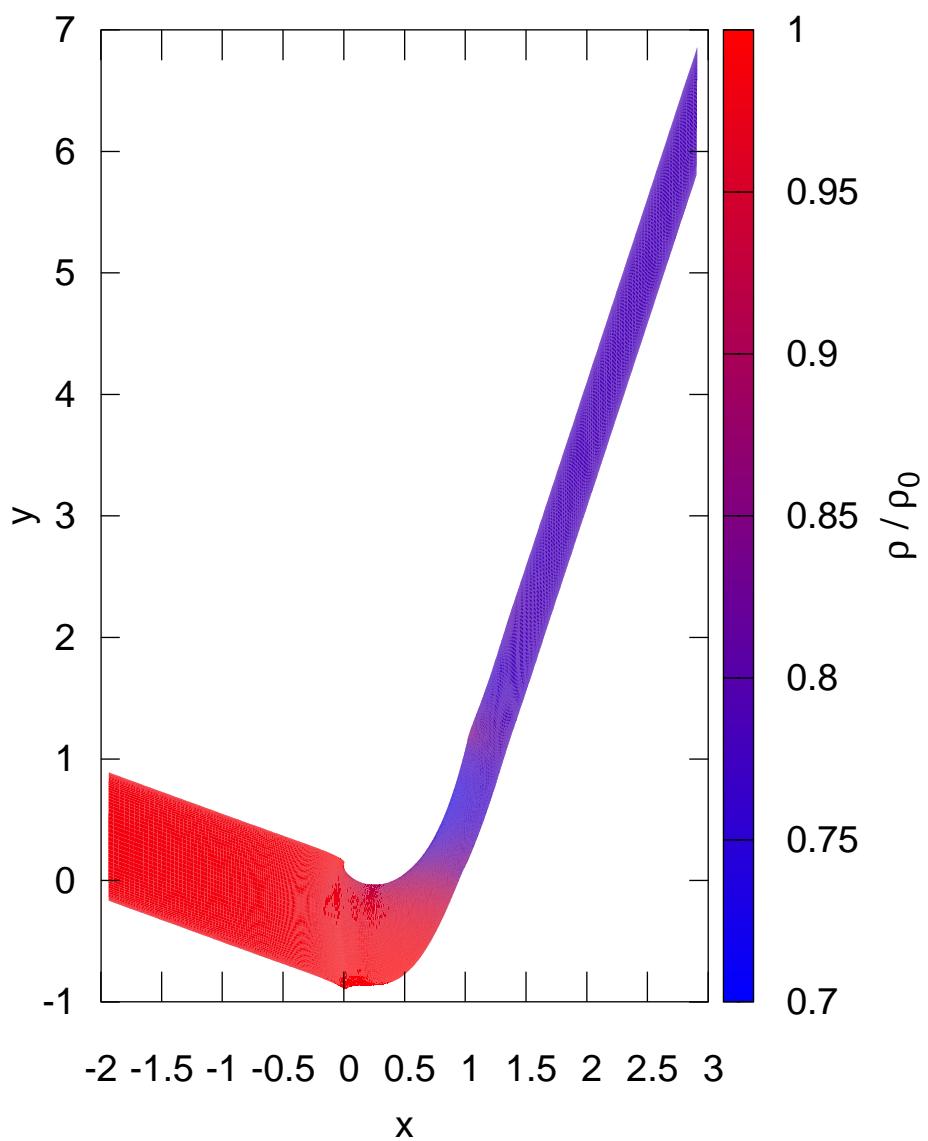


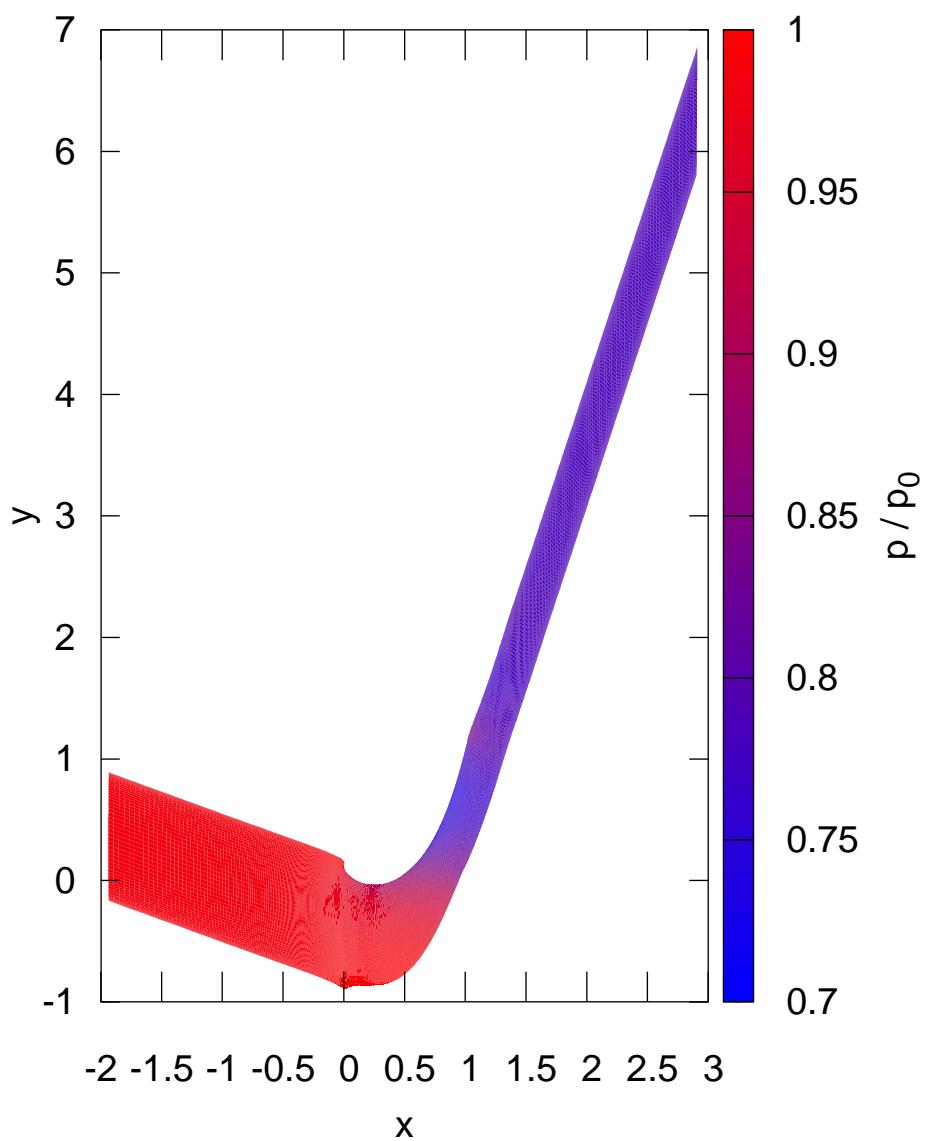
$$\alpha_1 = -20.0^\circ \parallel \alpha_2 = 72.5^\circ \parallel M_2 = 0.7 \parallel s = 1.056 \parallel Re = 600000.0$$

$$M_{LE} = 1.8 \parallel M_{PEAK} = 1.2 \parallel L_{PEAK} = 0.6 \parallel M_{PRESS} = 0.8$$

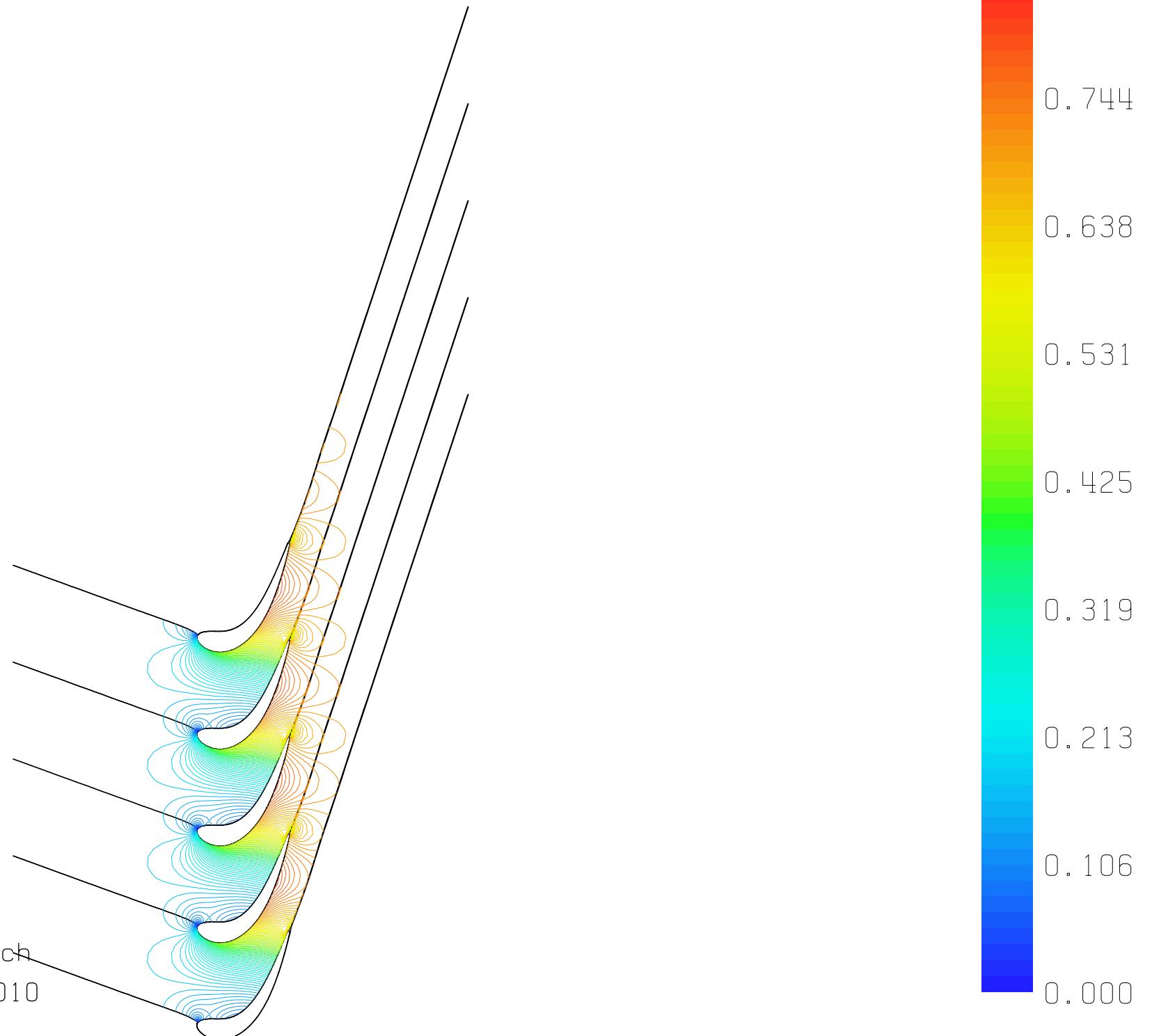


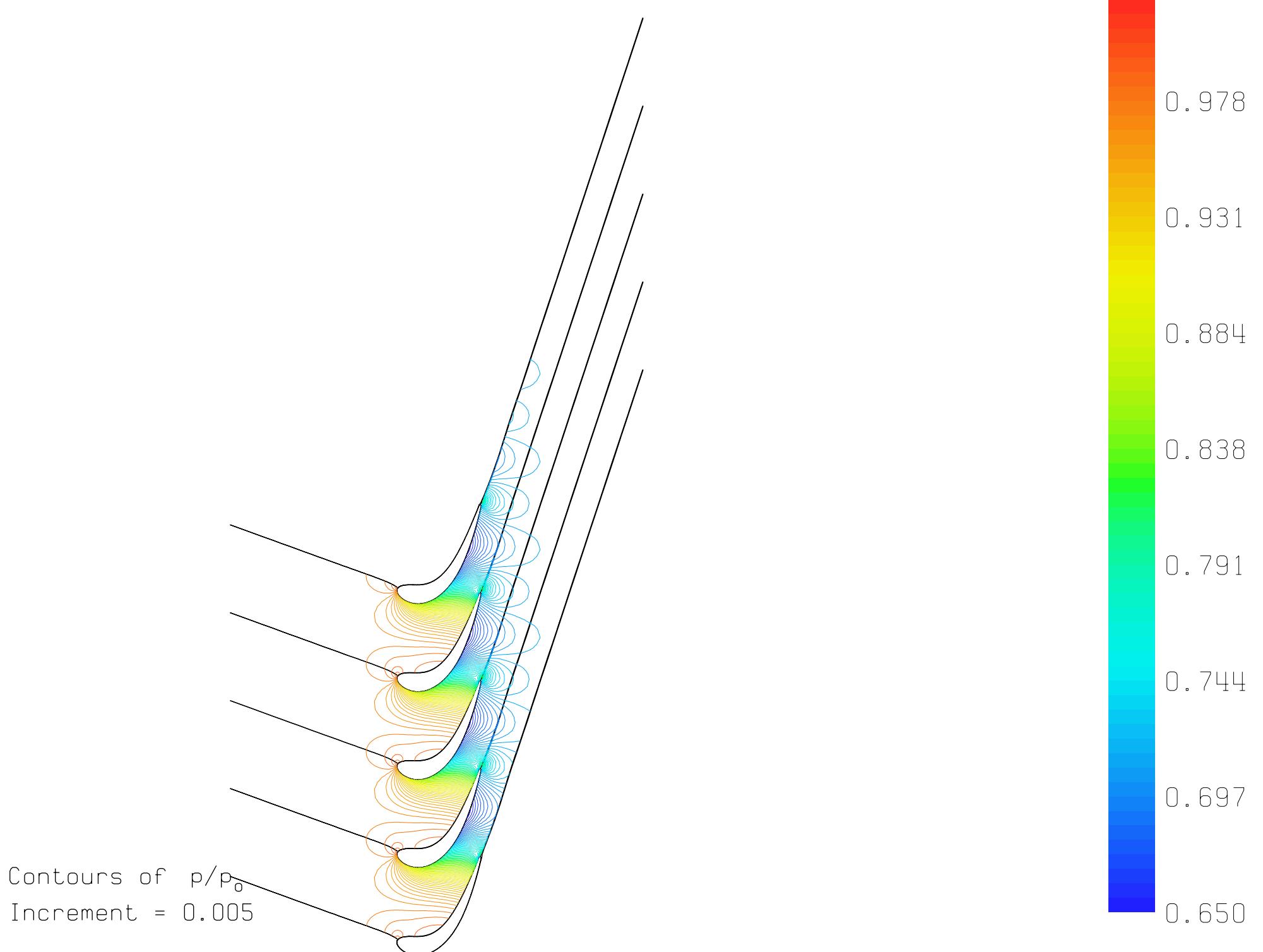


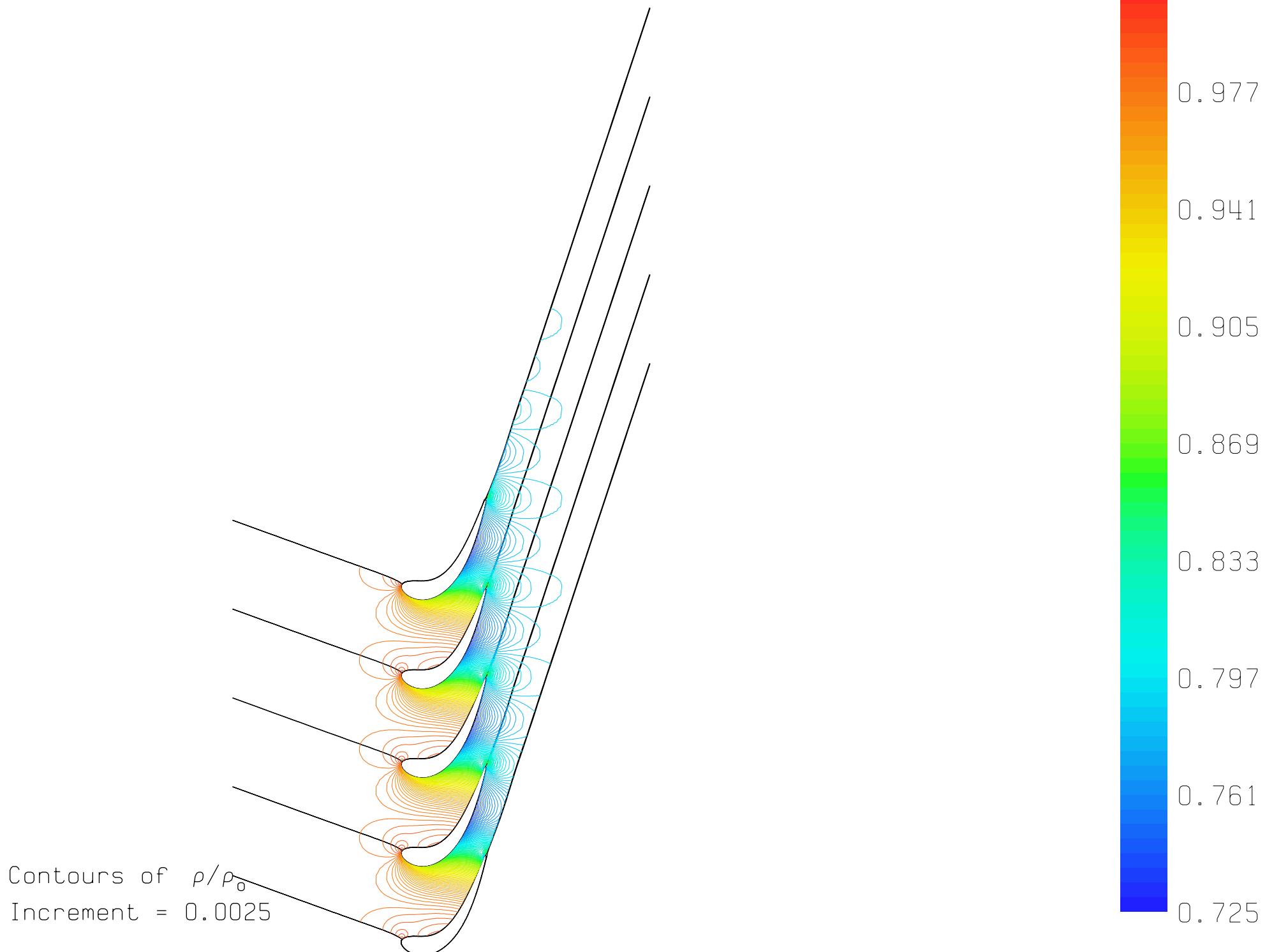


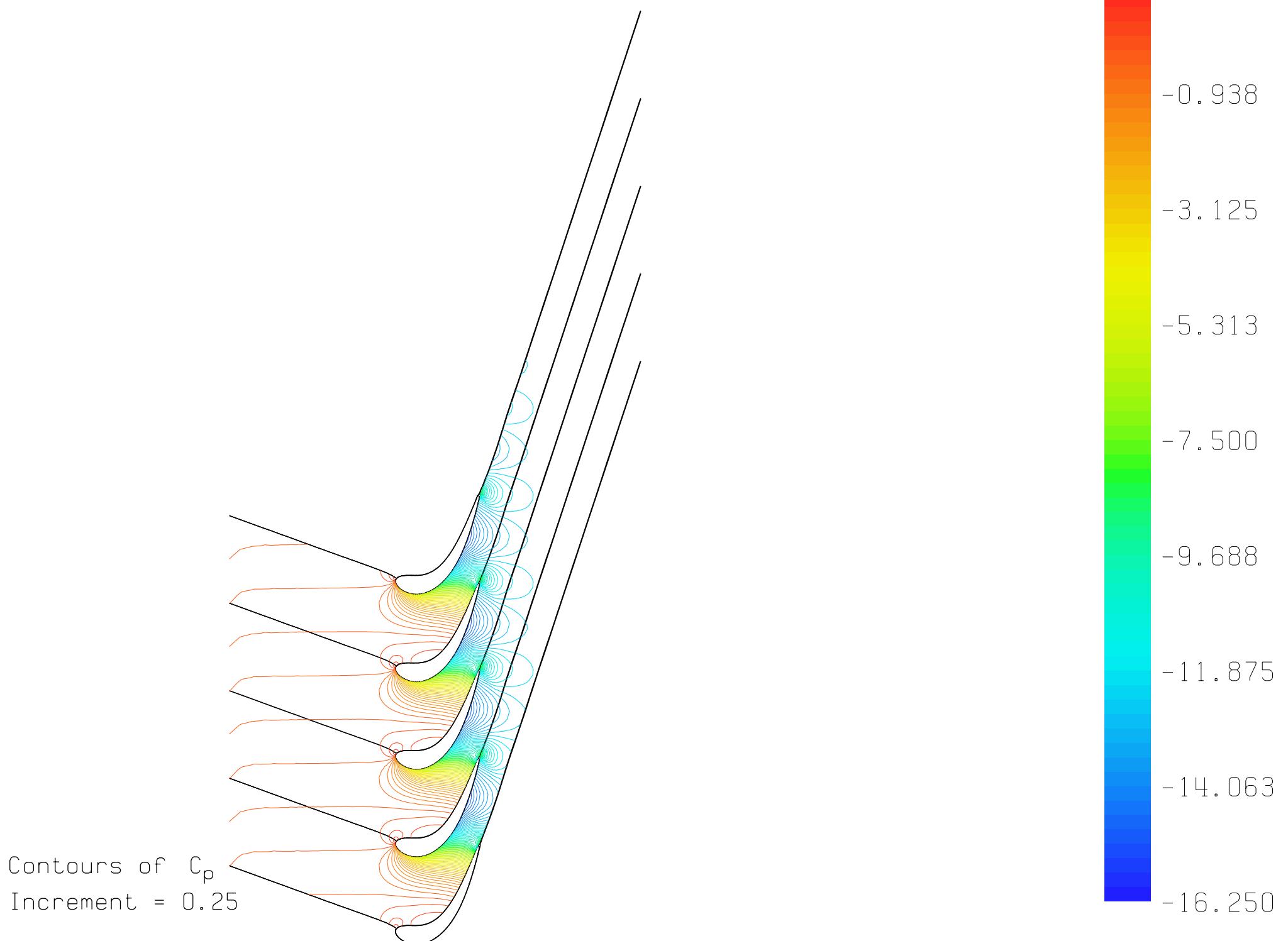


Contours of Mach
Increment = 0.010

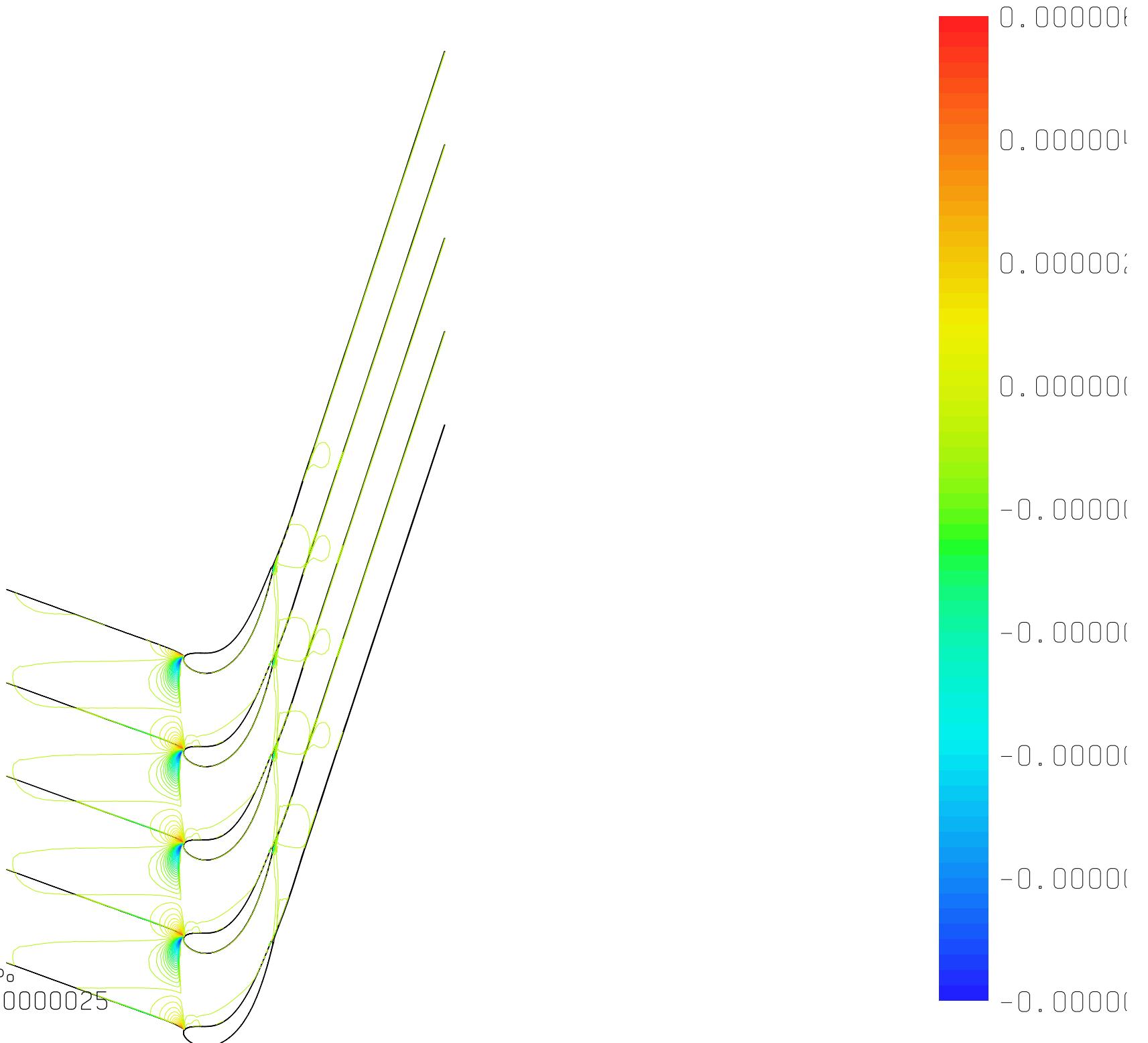








Contours of ΔC_{p_0}
Increment = 0.00000025



Contours of $\Delta p_o / p_o$
Increment = 0.000000005

