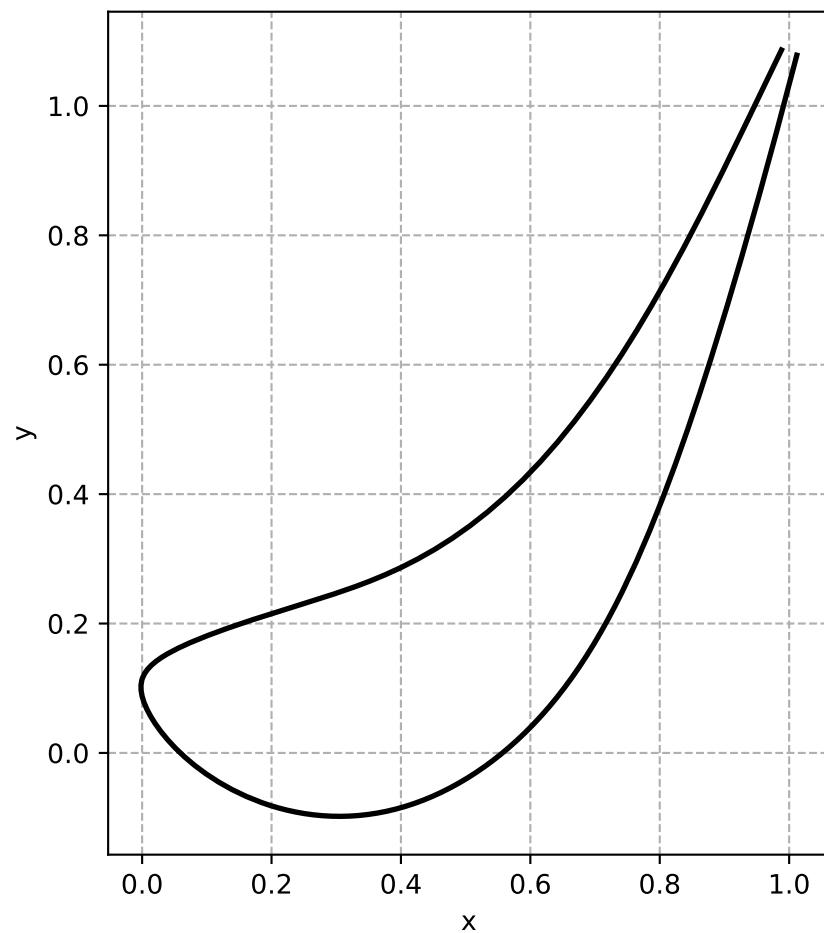
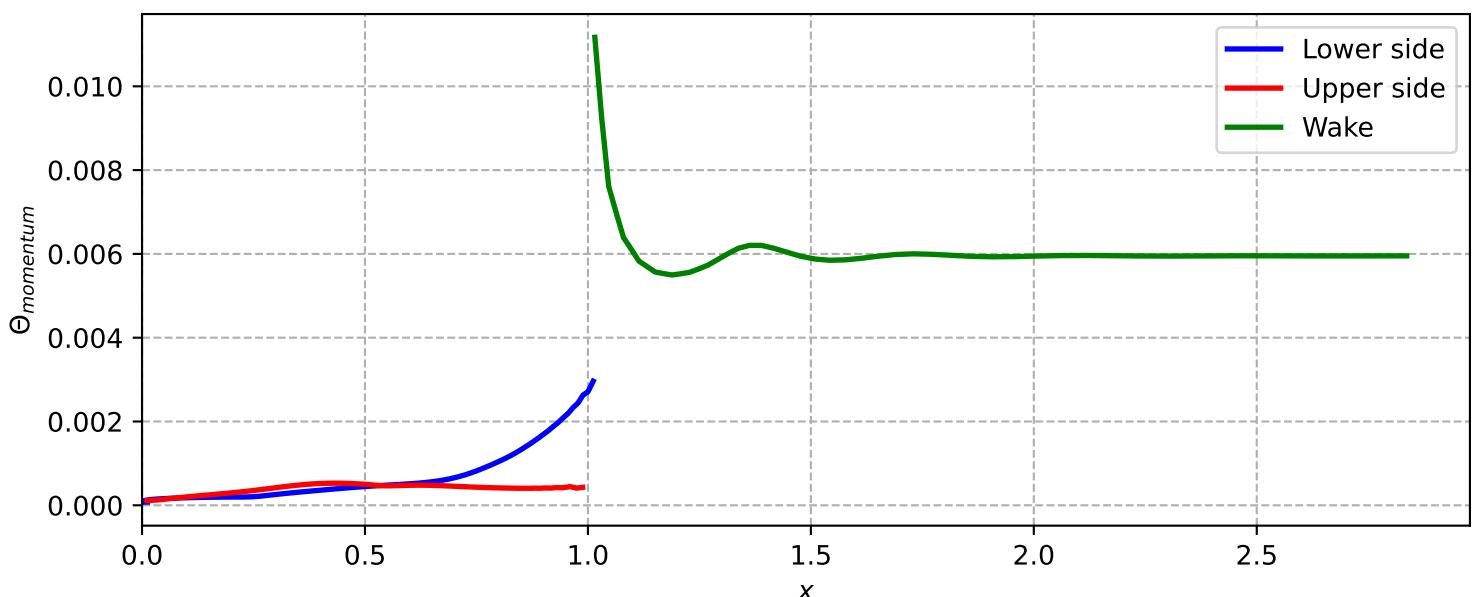
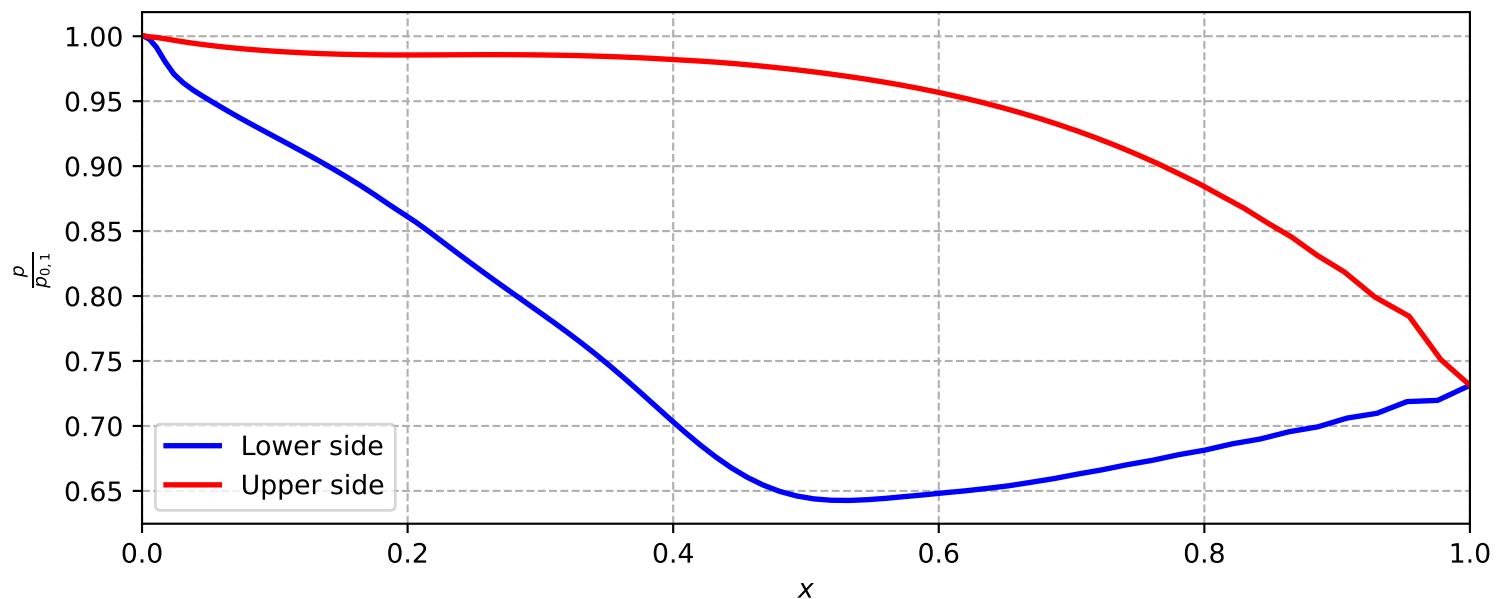
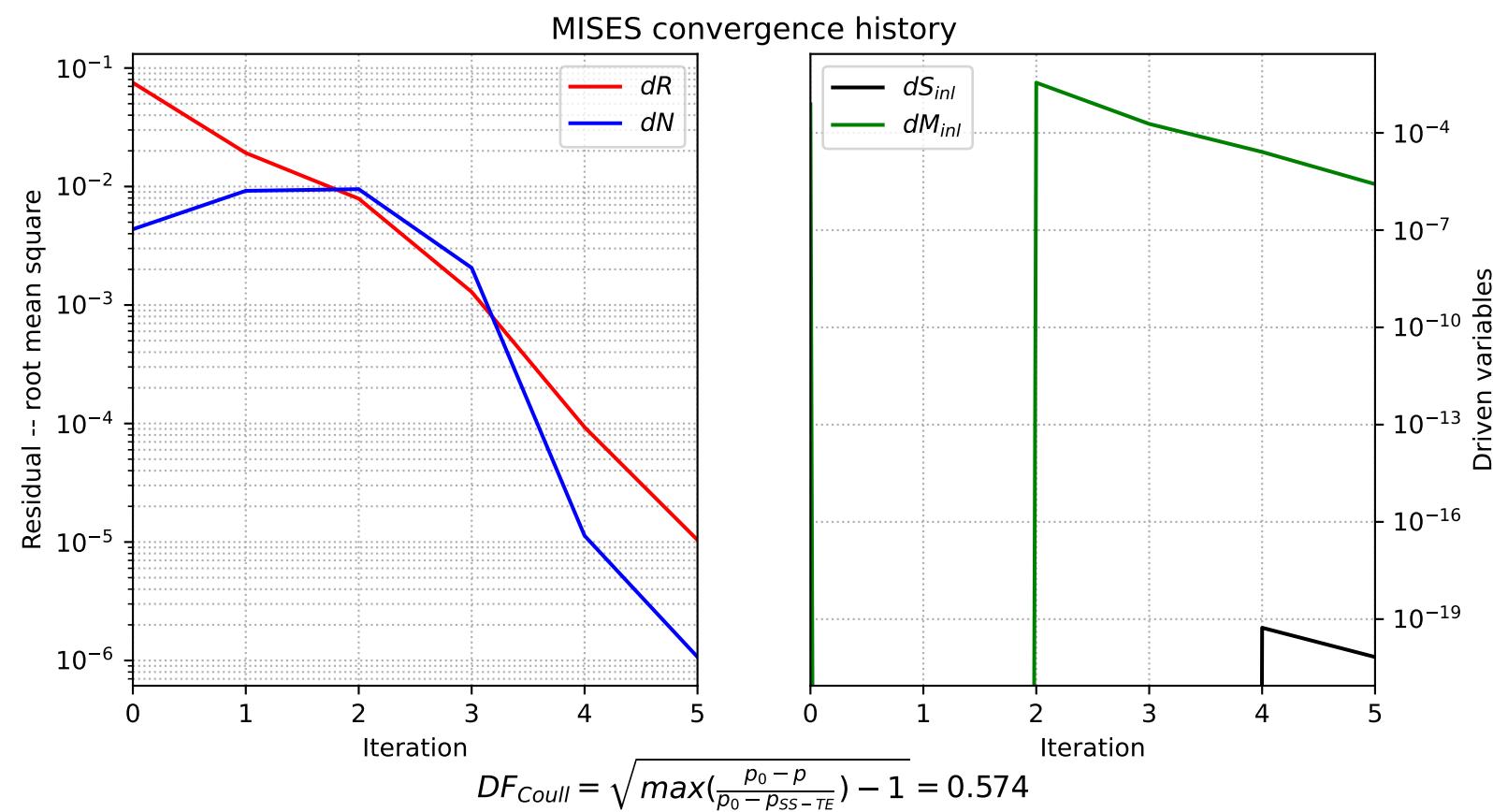
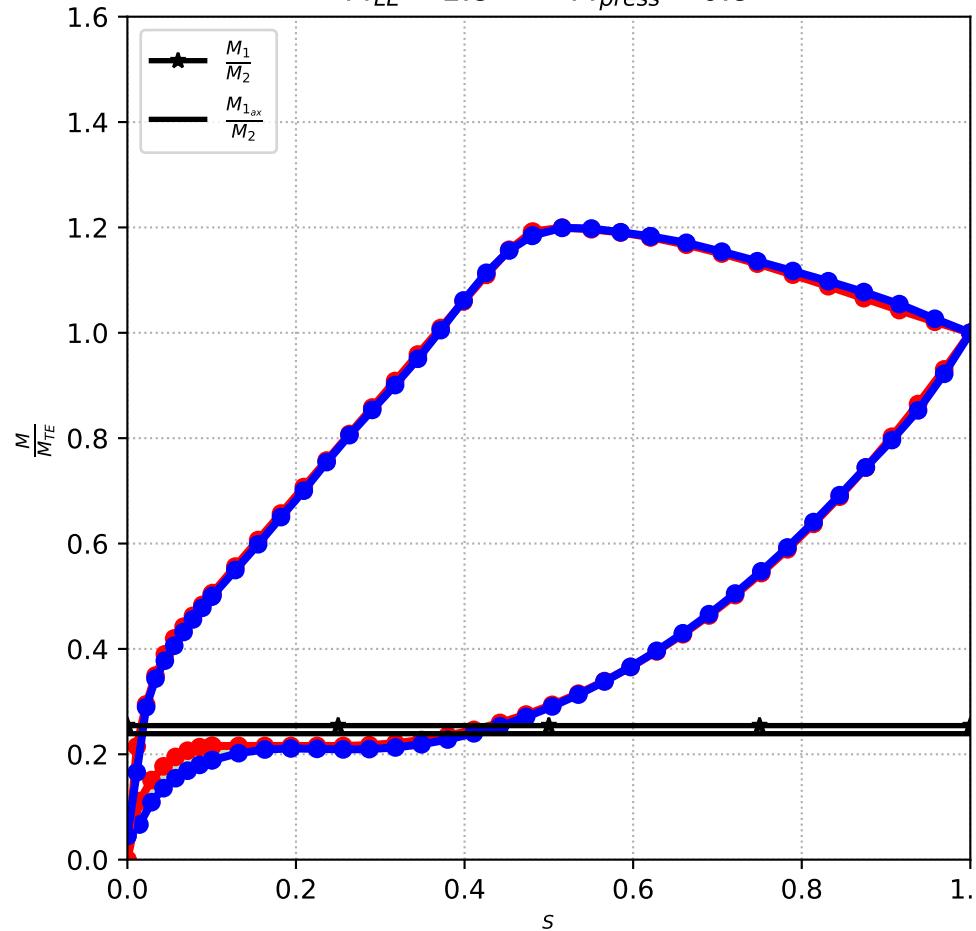


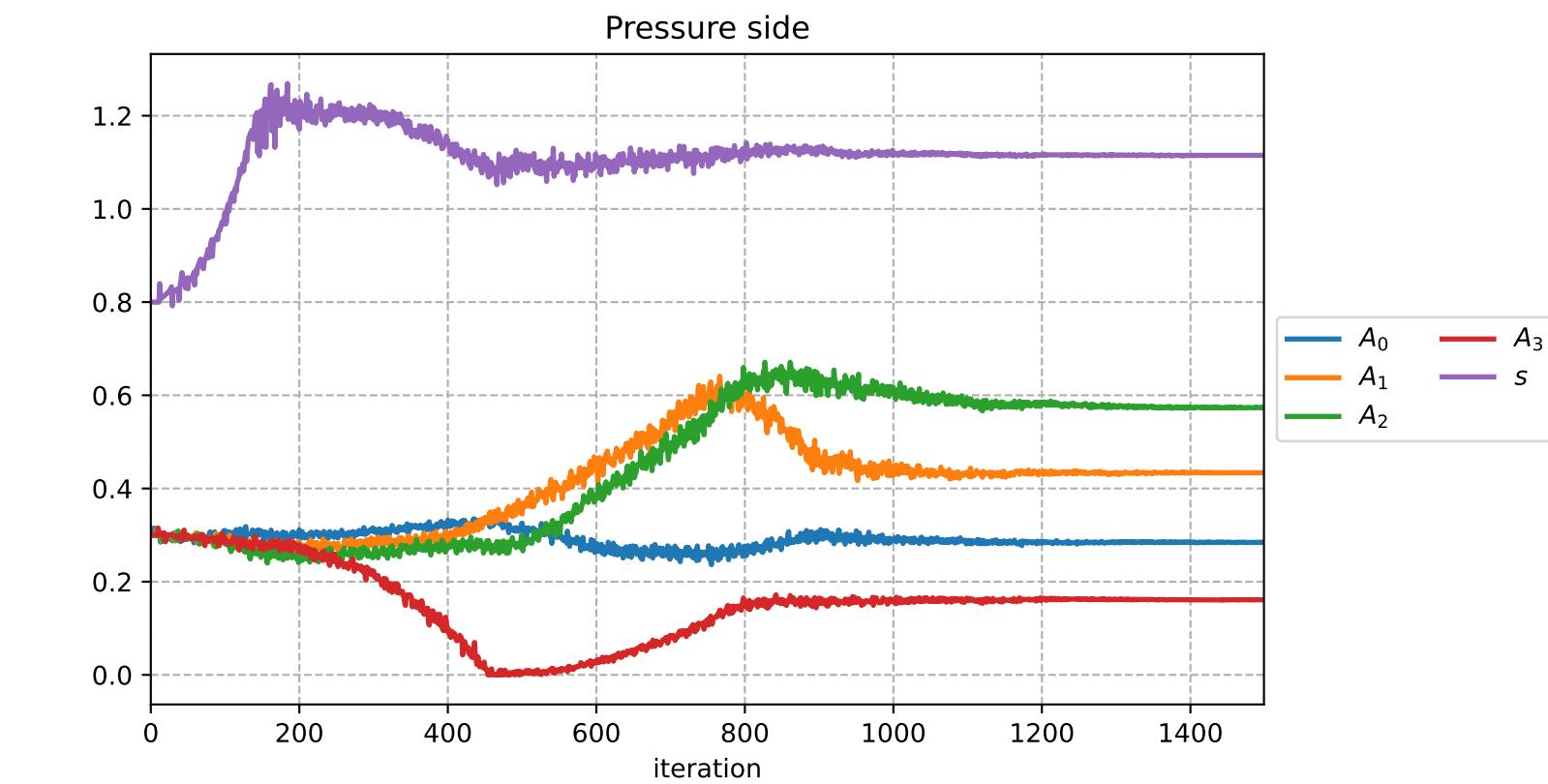
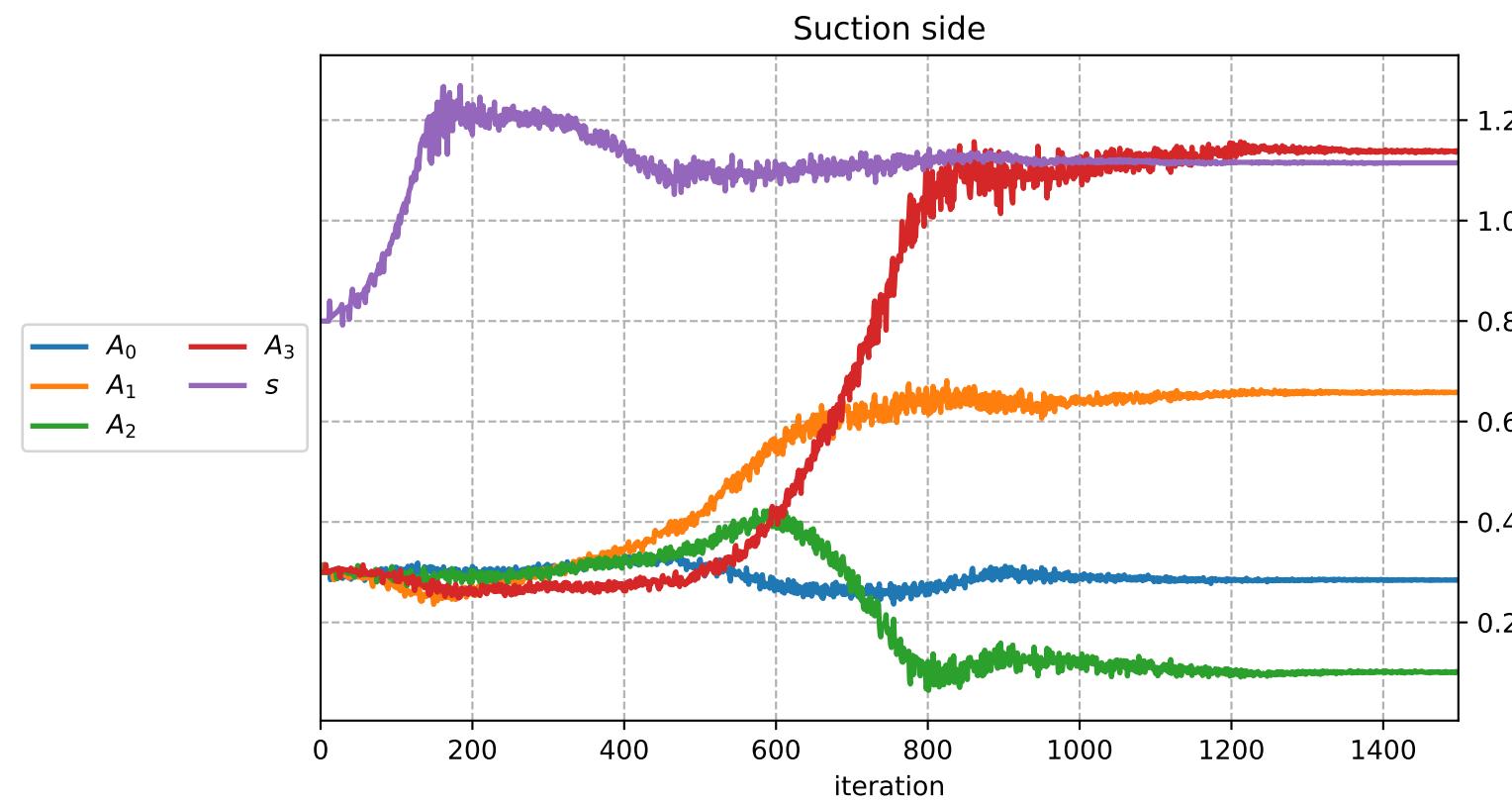
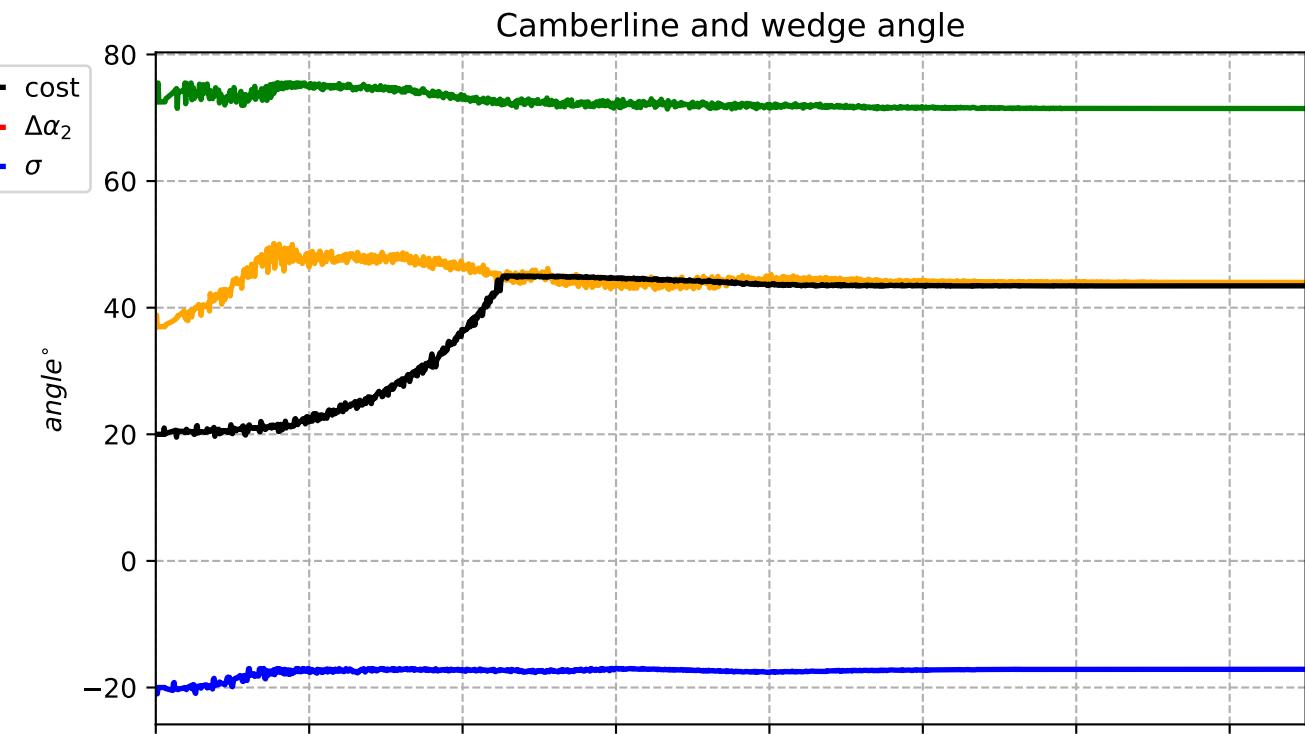
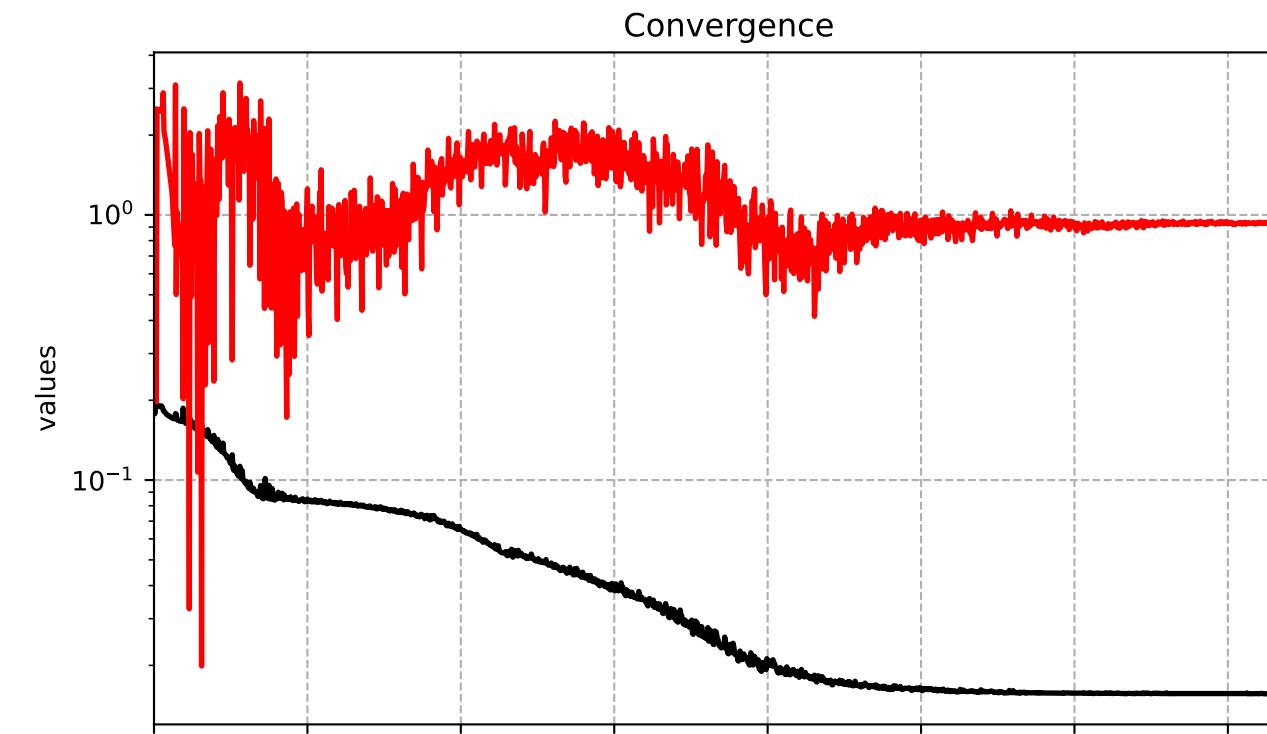
#0121 NAME: VKblade
 $\alpha_1 = -20.000^\circ$ $\alpha_2 = \text{KUTTA CONDITION}$
CHINL = 2.000 CHOUT = 2.000
PITCH = 1.117 $\beta = 42.560^\circ$
 $R_{LE} = 0.041$ $\zeta_{TE} = 0.025$



$RMSE = 1.610E - 02$
 $RMSE_{PS} = 1.932E - 02$ $RMSE_{SS} = 1.228E - 02$
 $\alpha_2, \text{target} = 72.50^\circ$ $\Delta\alpha_2 = 0.82^\circ$ $\alpha_2, \text{real} = 71.68^\circ$
 $M_{peak} = 1.2$ $L_{peak} = 0.5$
 $M_{LE} = 1.8$ $M_{press} = 0.8$

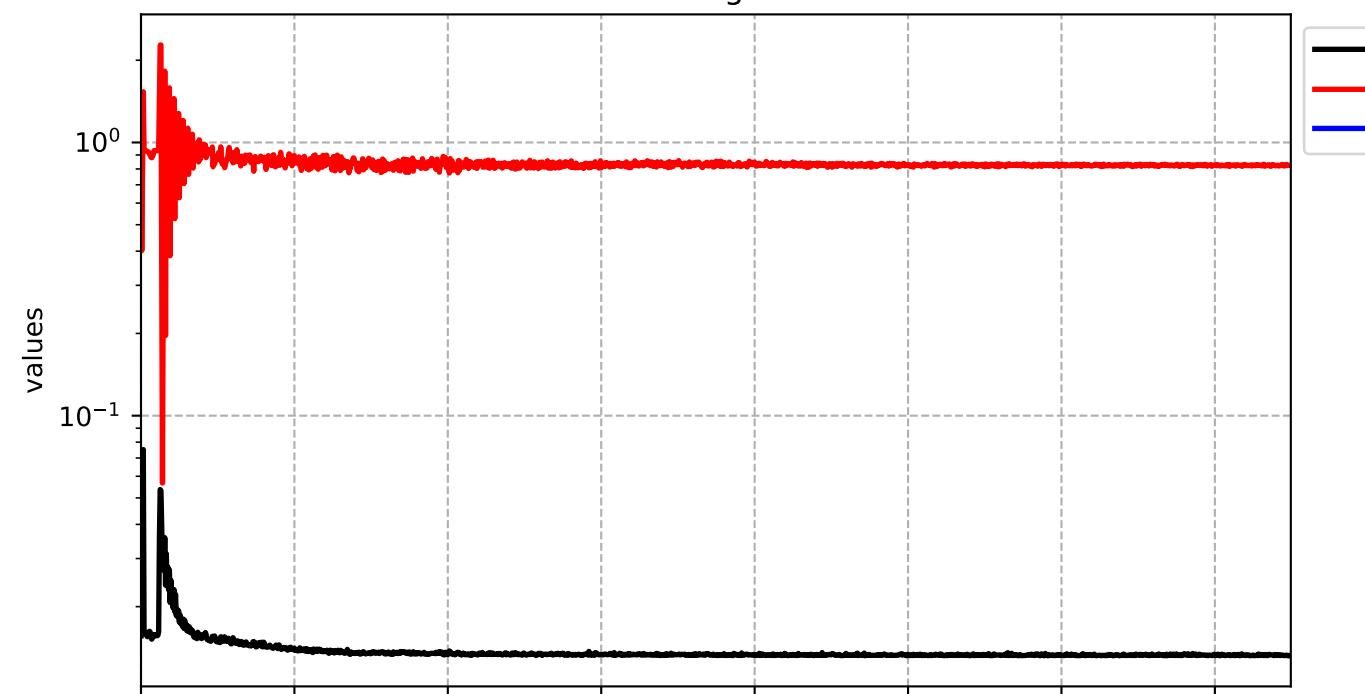


Optimization: 1
Method: Nelder-Mead

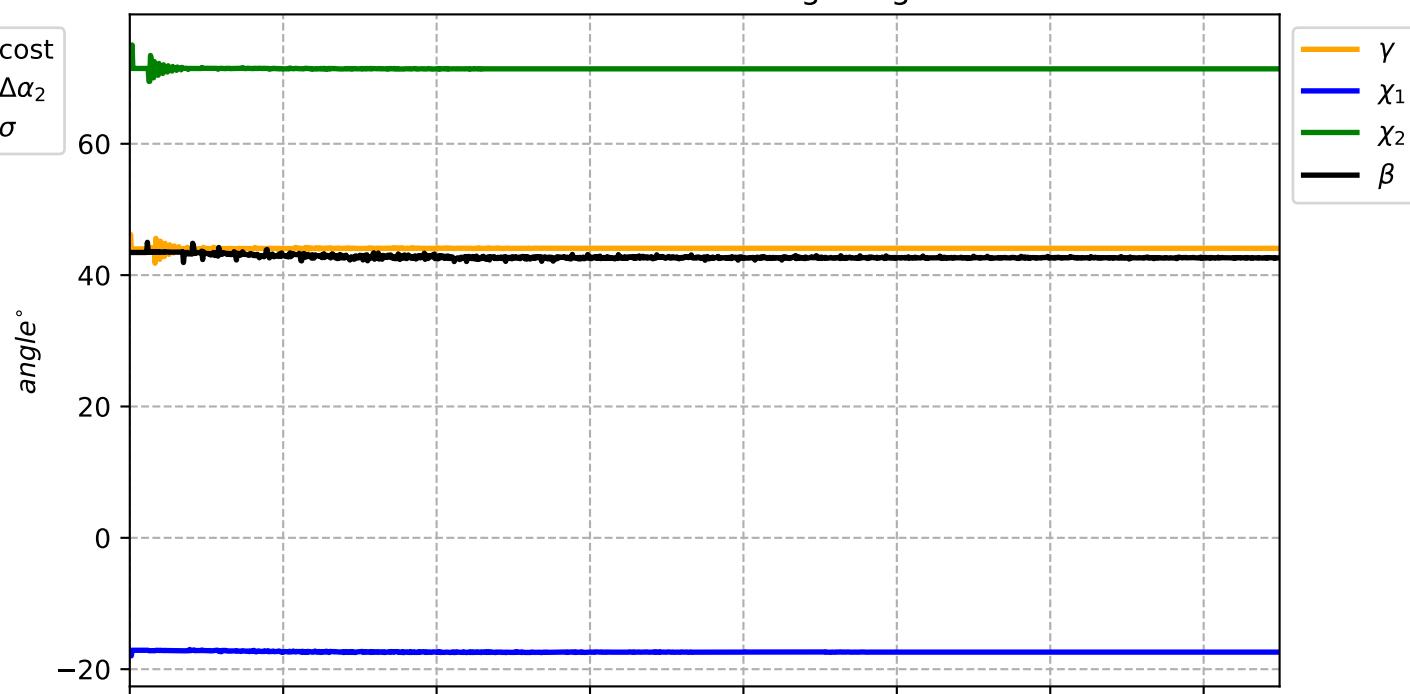


Optimization: 2
Method: Nelder-Mead

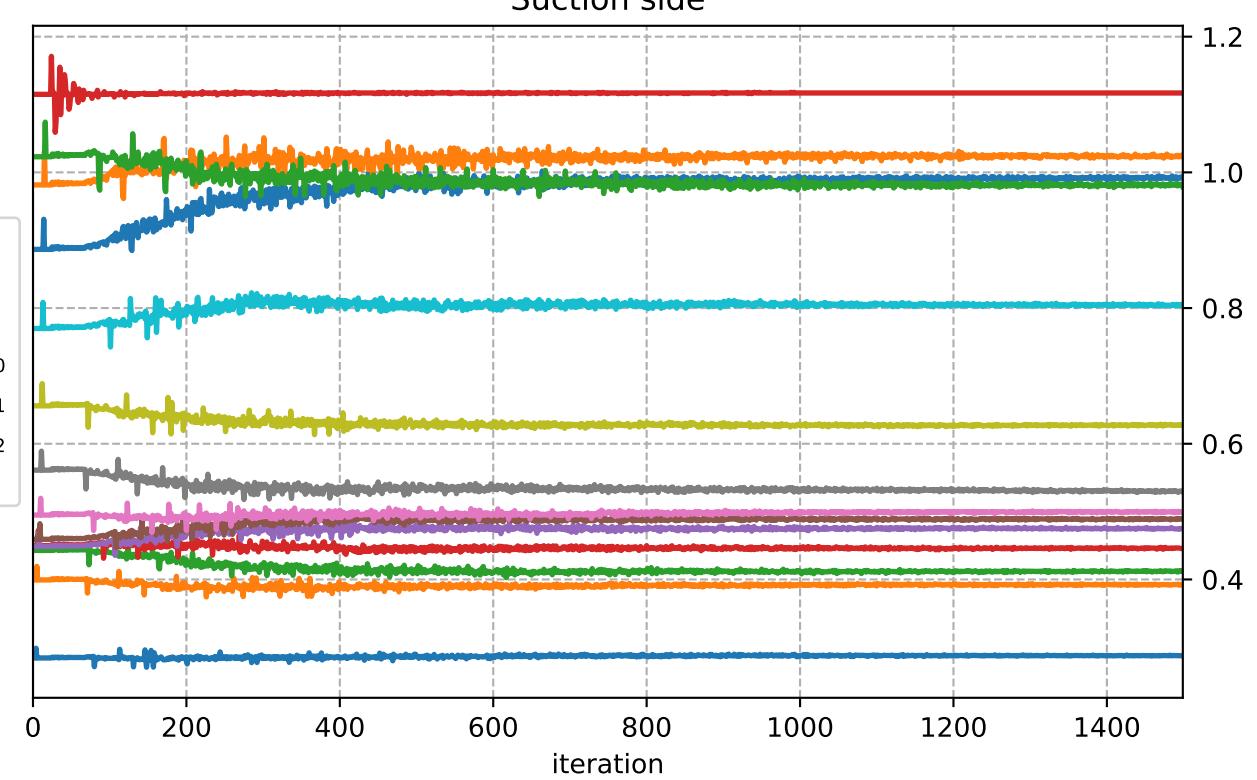
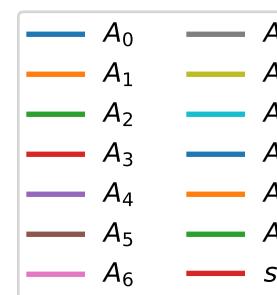
Convergence



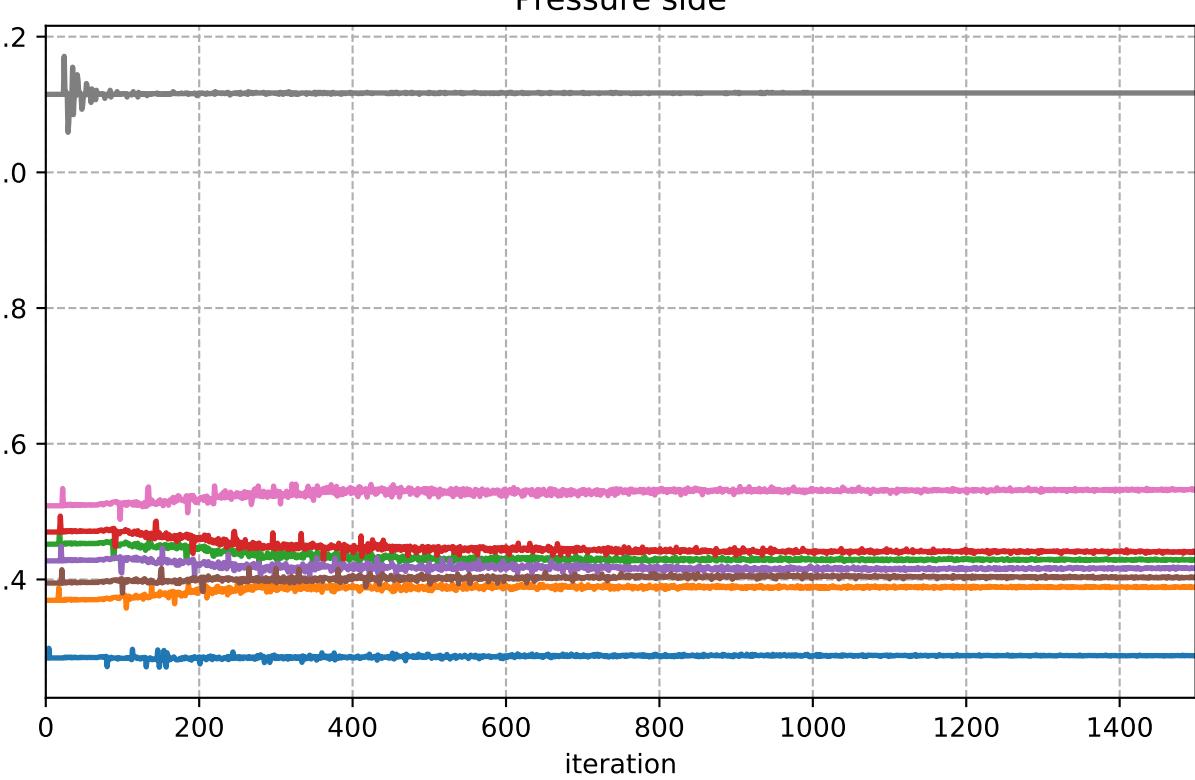
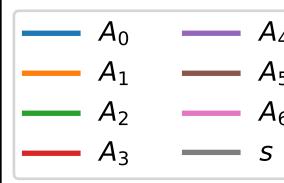
Camberline and wedge angle



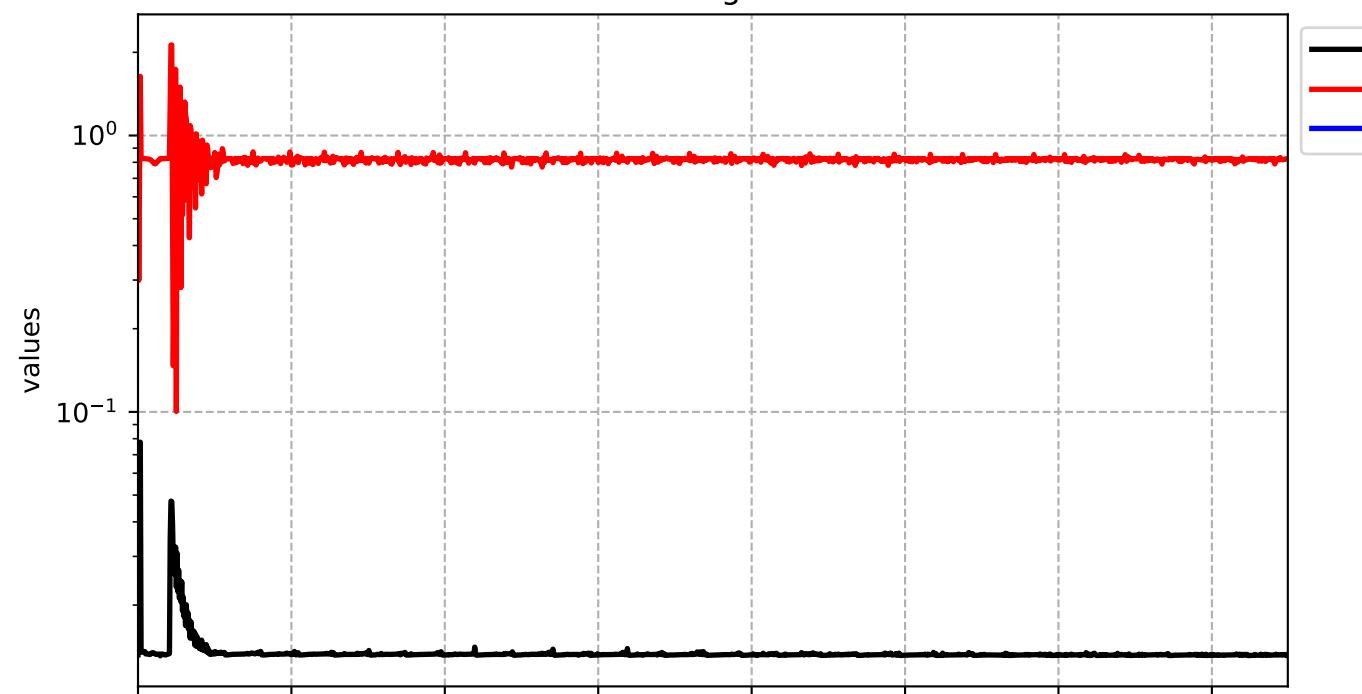
Suction side



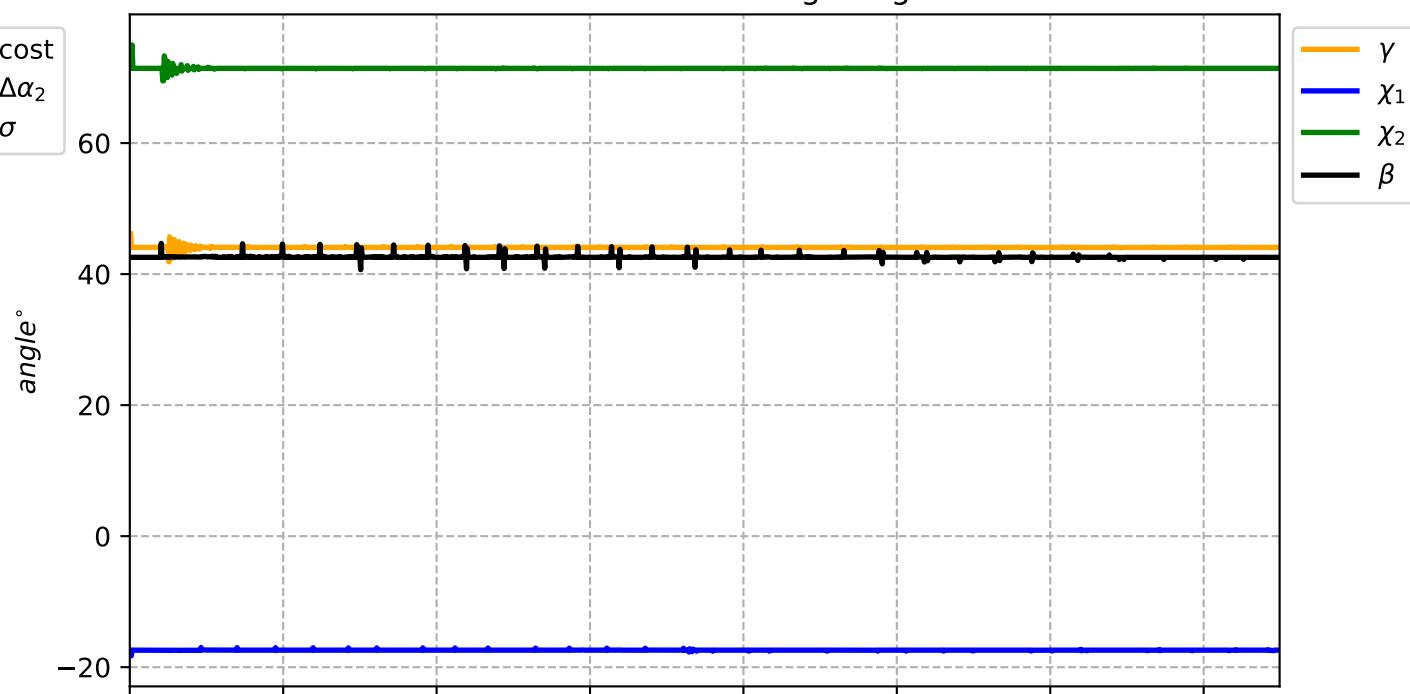
Pressure side



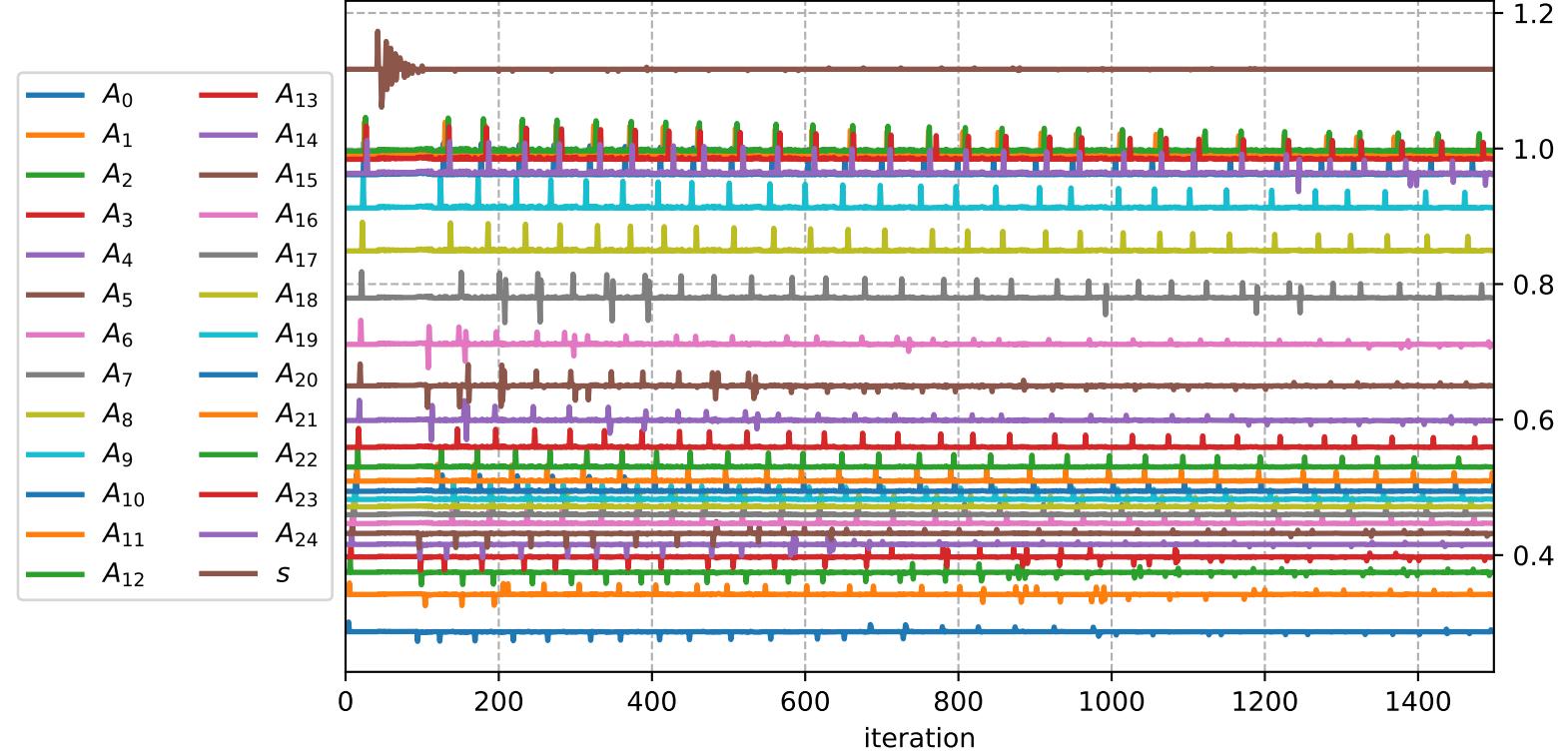
Convergence



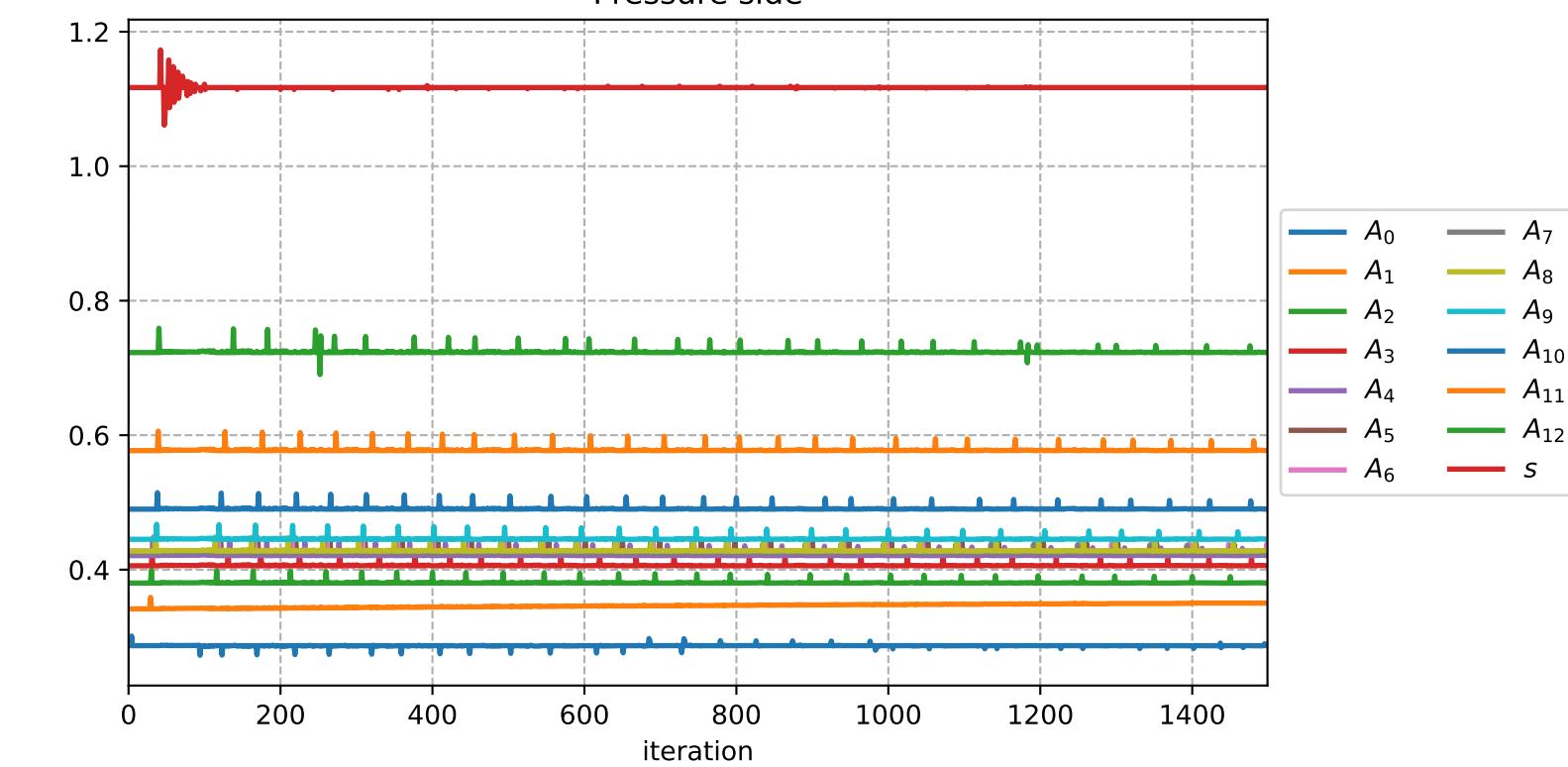
Camberline and wedge angle

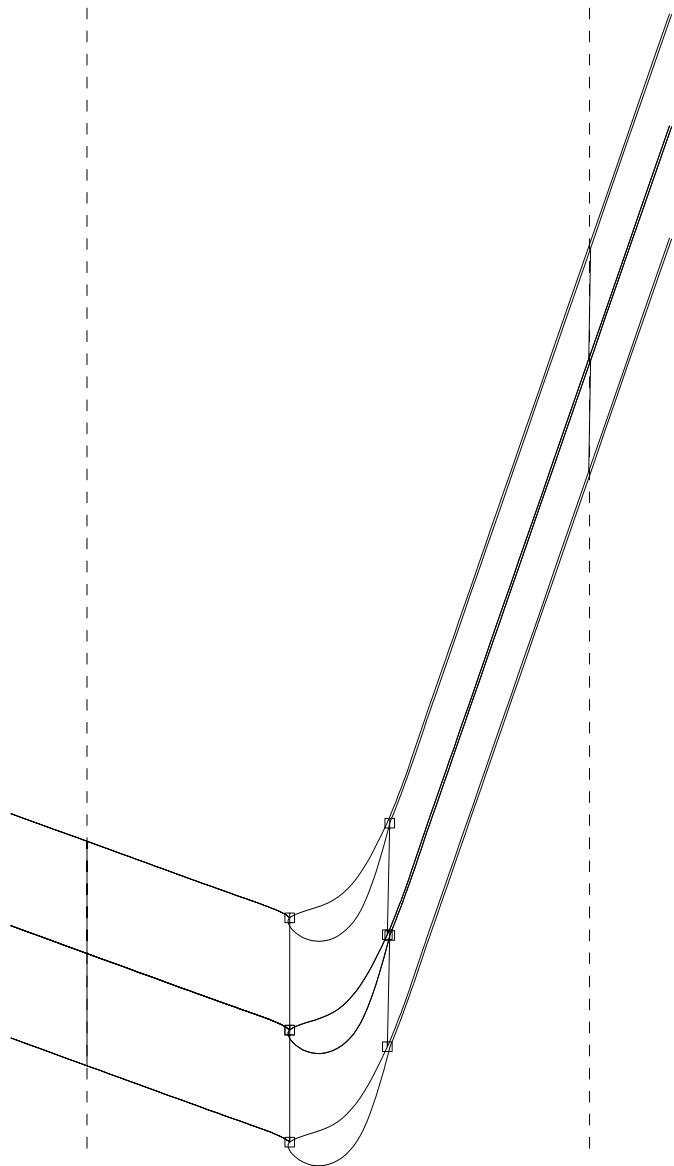


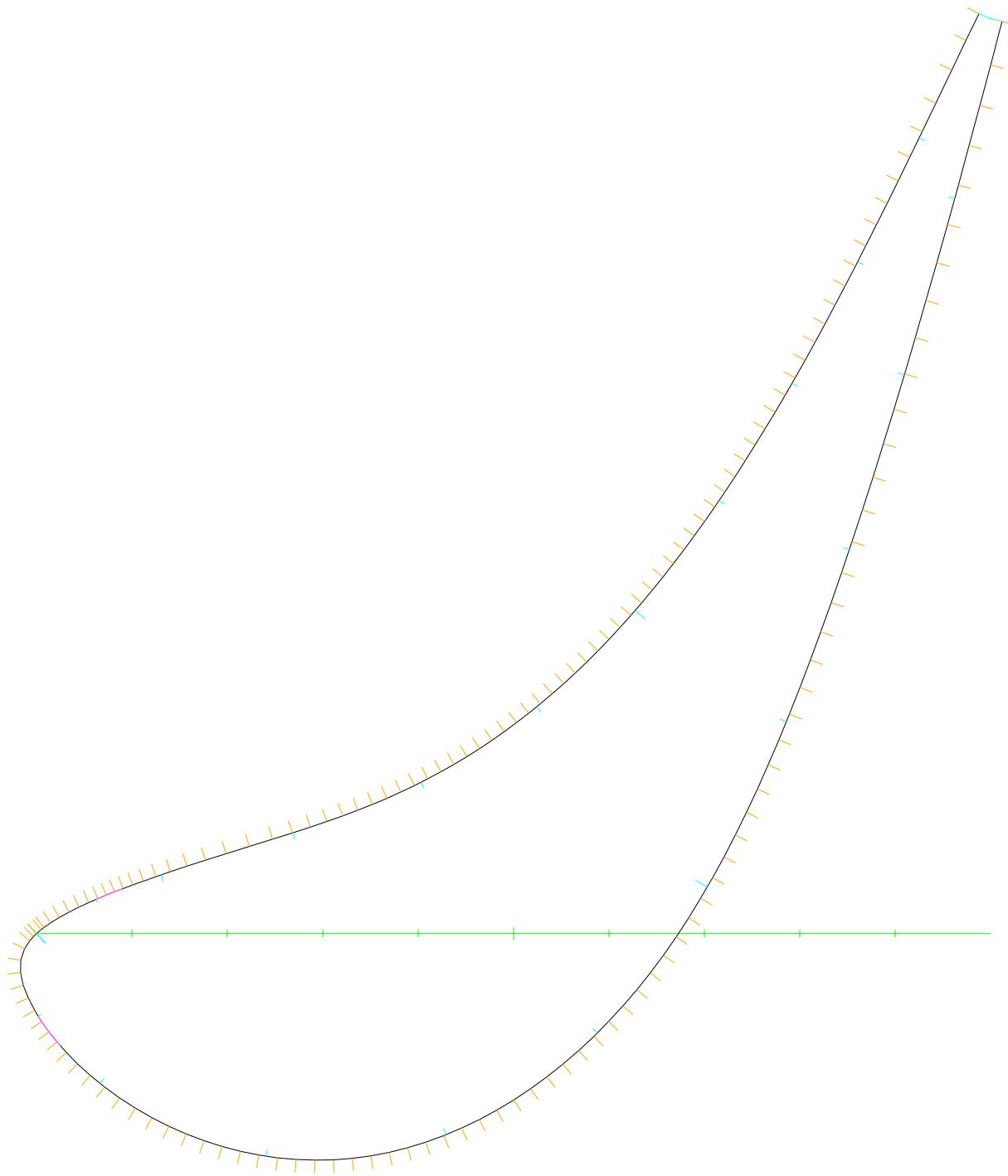
Suction side

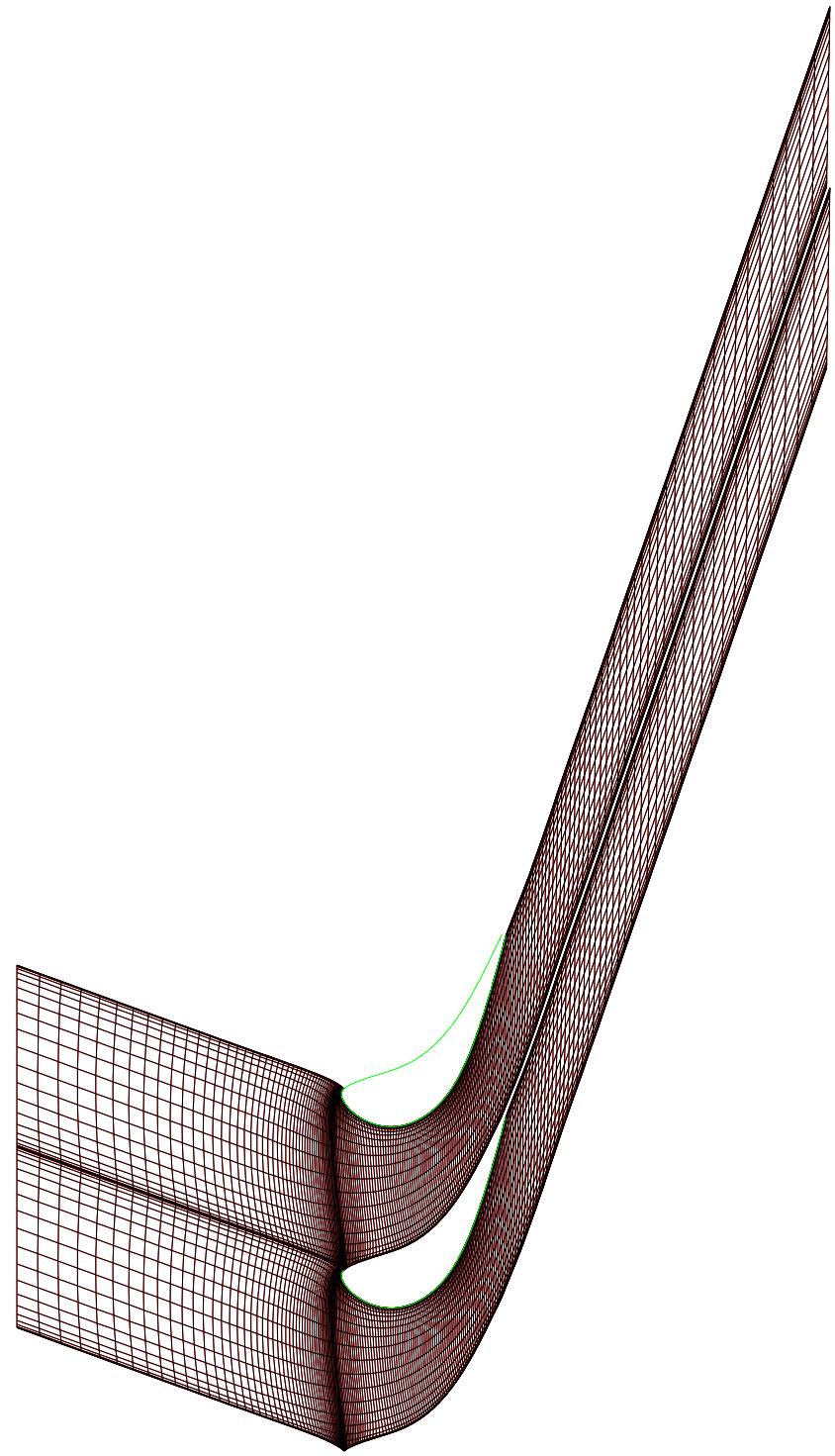


Pressure side



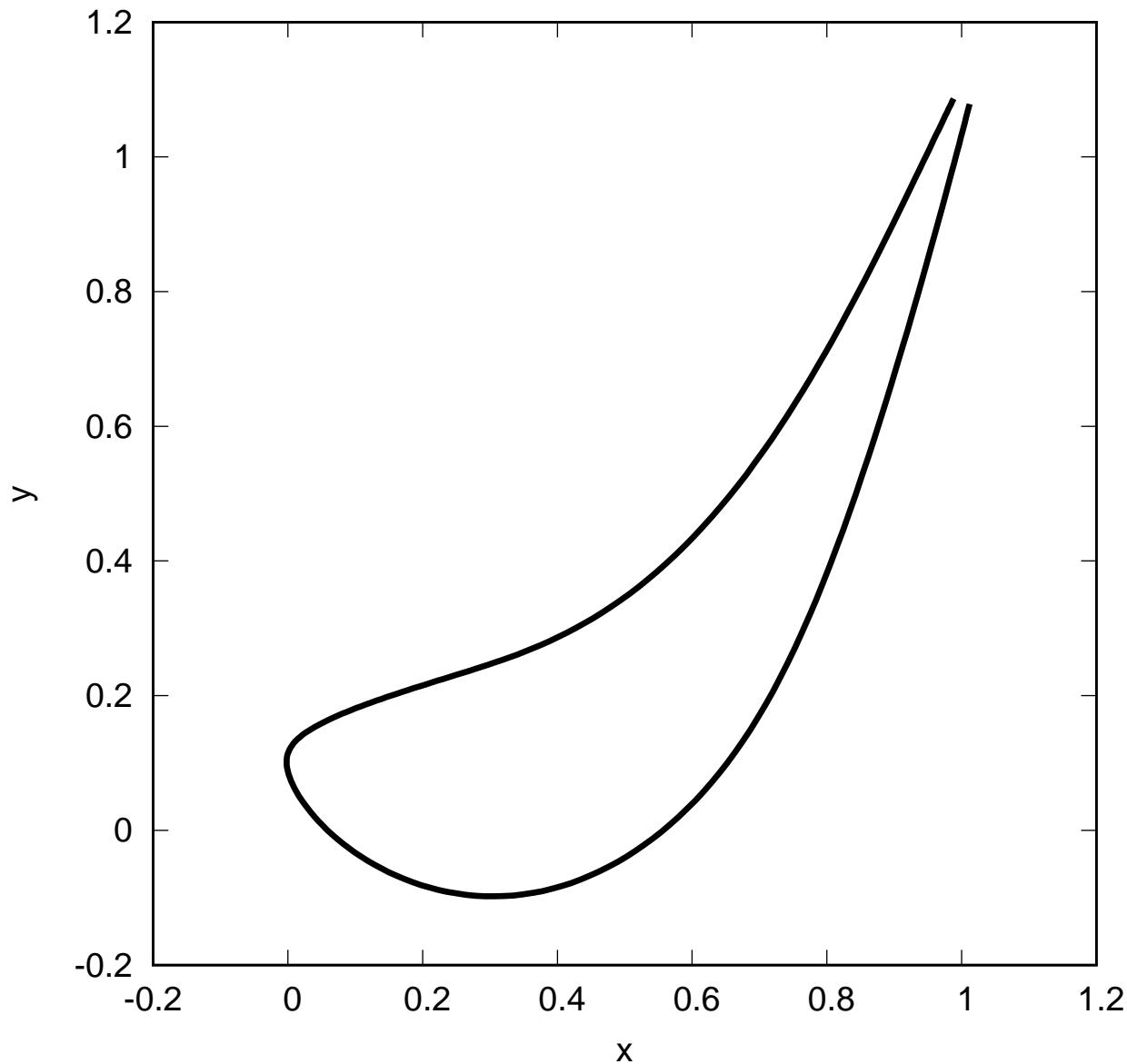






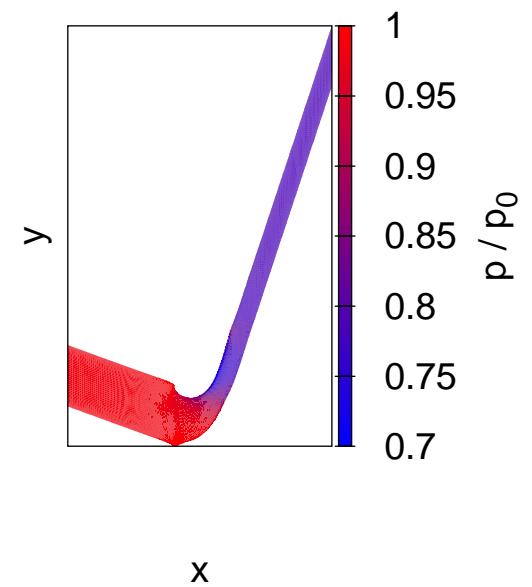
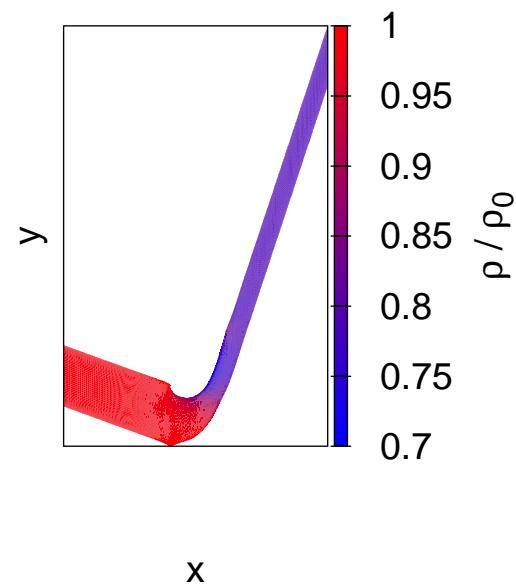
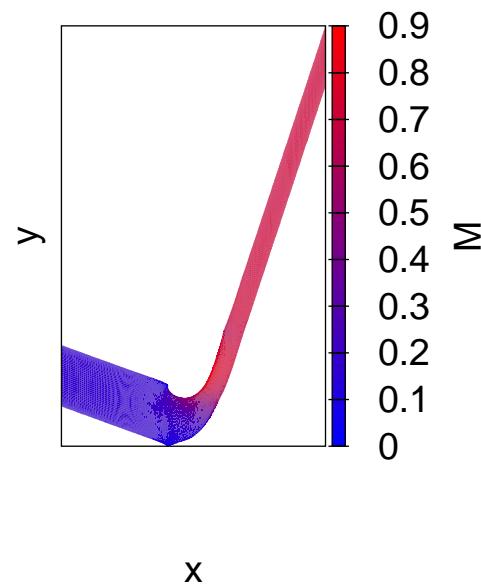
$$\alpha_1 = -20.0^\circ \parallel \alpha_2 = 72.5^\circ \parallel M_2 = 0.7 \parallel s = 1.117 \parallel Re = 600000.0$$

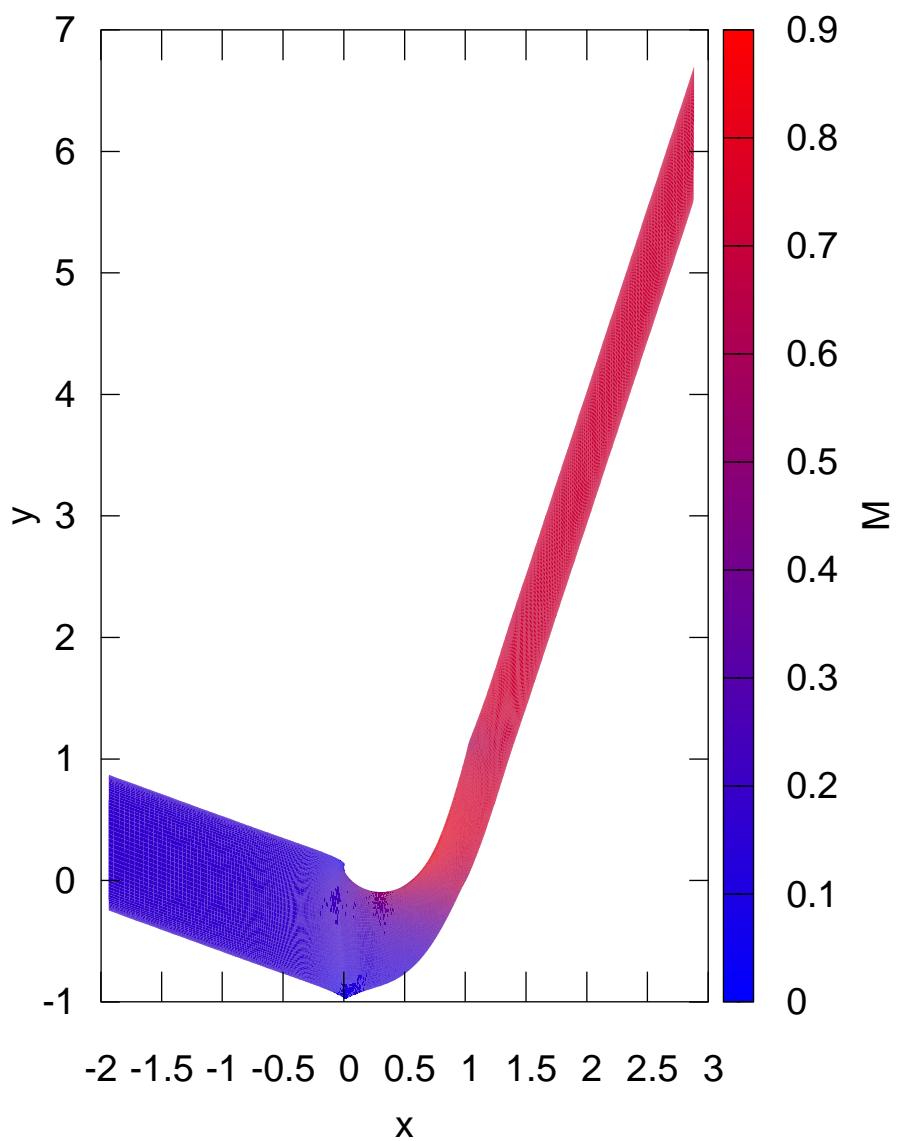
$$M_{LE} = 1.8 \parallel M_{PEAK} = 1.2 \parallel L_{PEAK} = 0.5 \parallel M_{PRESS} = 0.8$$

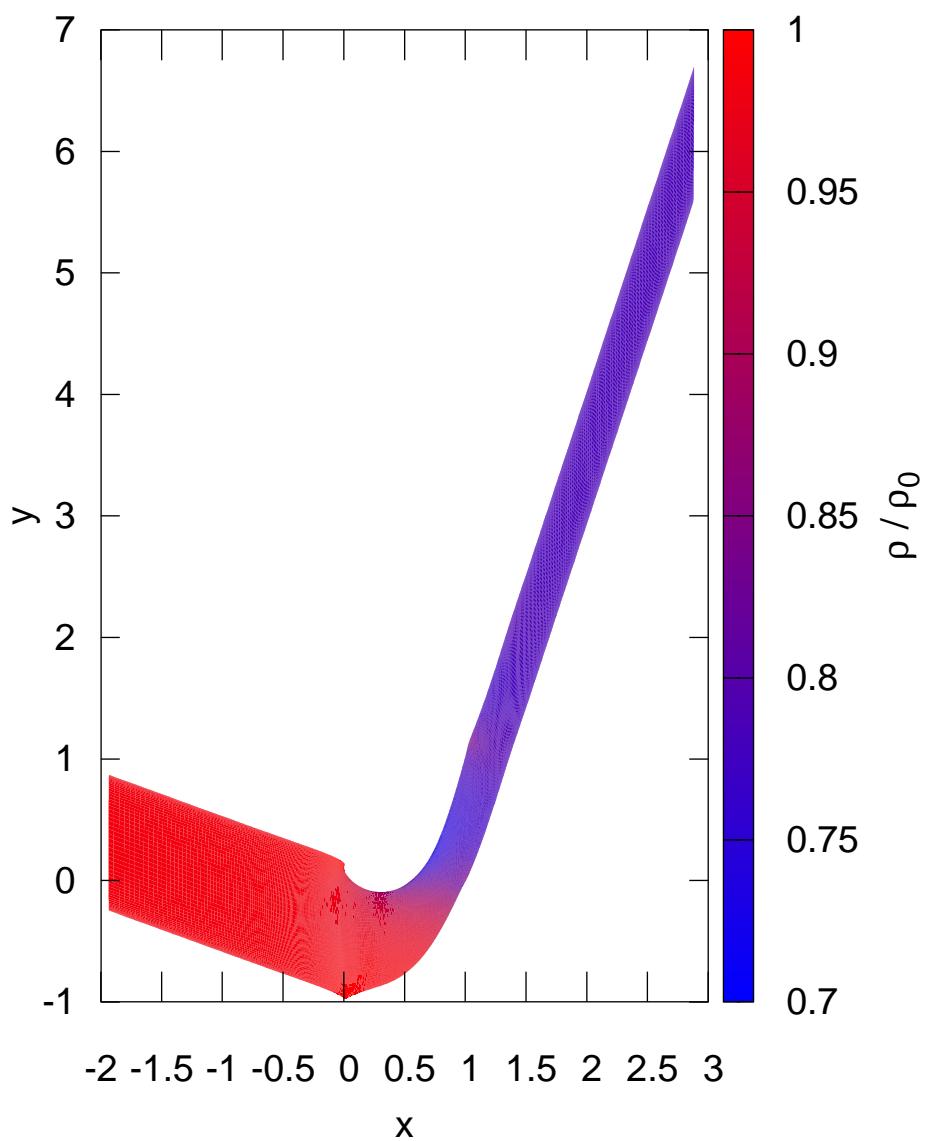


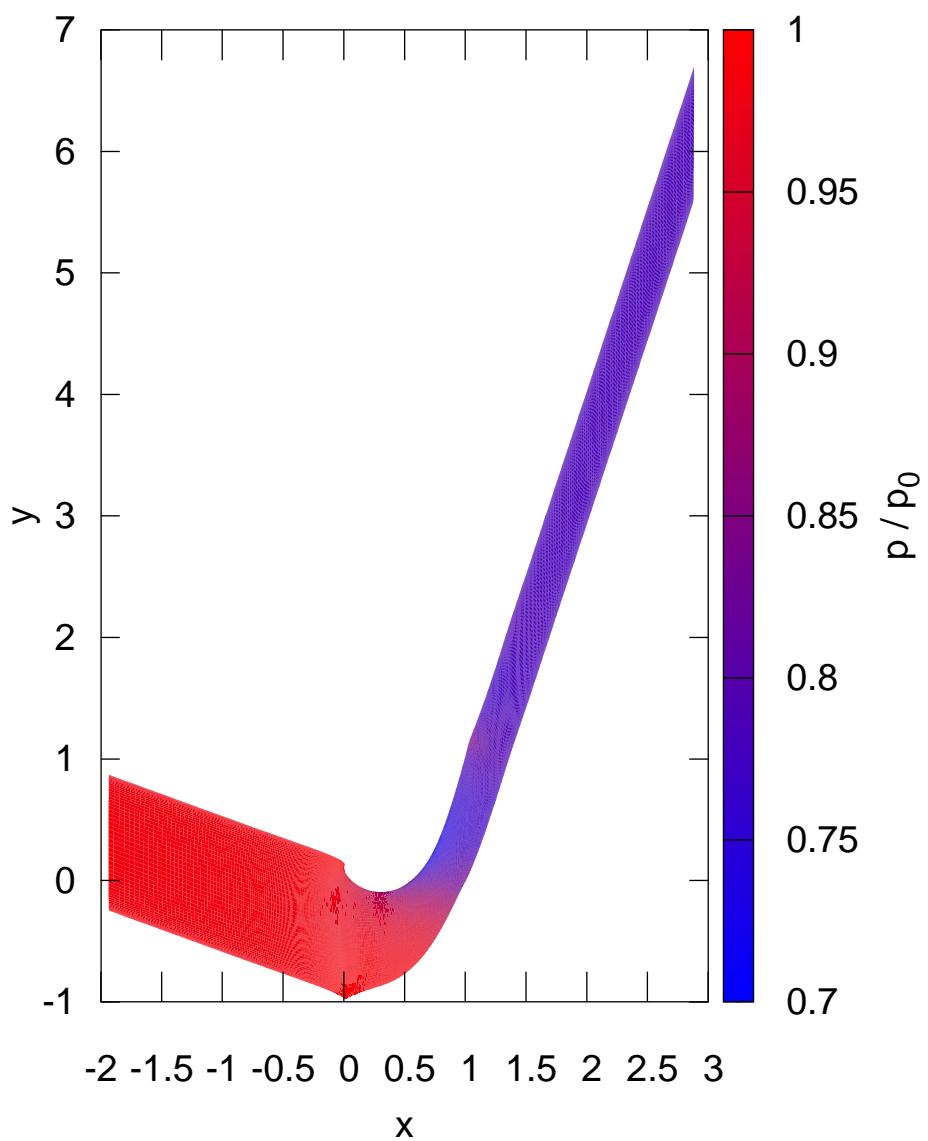
$$\alpha_1 = -20.0^\circ \parallel \alpha_2 = 72.5^\circ \parallel M_2 = 0.7 \parallel s = 1.117 \parallel Re = 600000.0$$

$$M_{LE} = 1.8 \parallel M_{PEAK} = 1.2 \parallel L_{PEAK} = 0.5 \parallel M_{PRESS} = 0.8$$

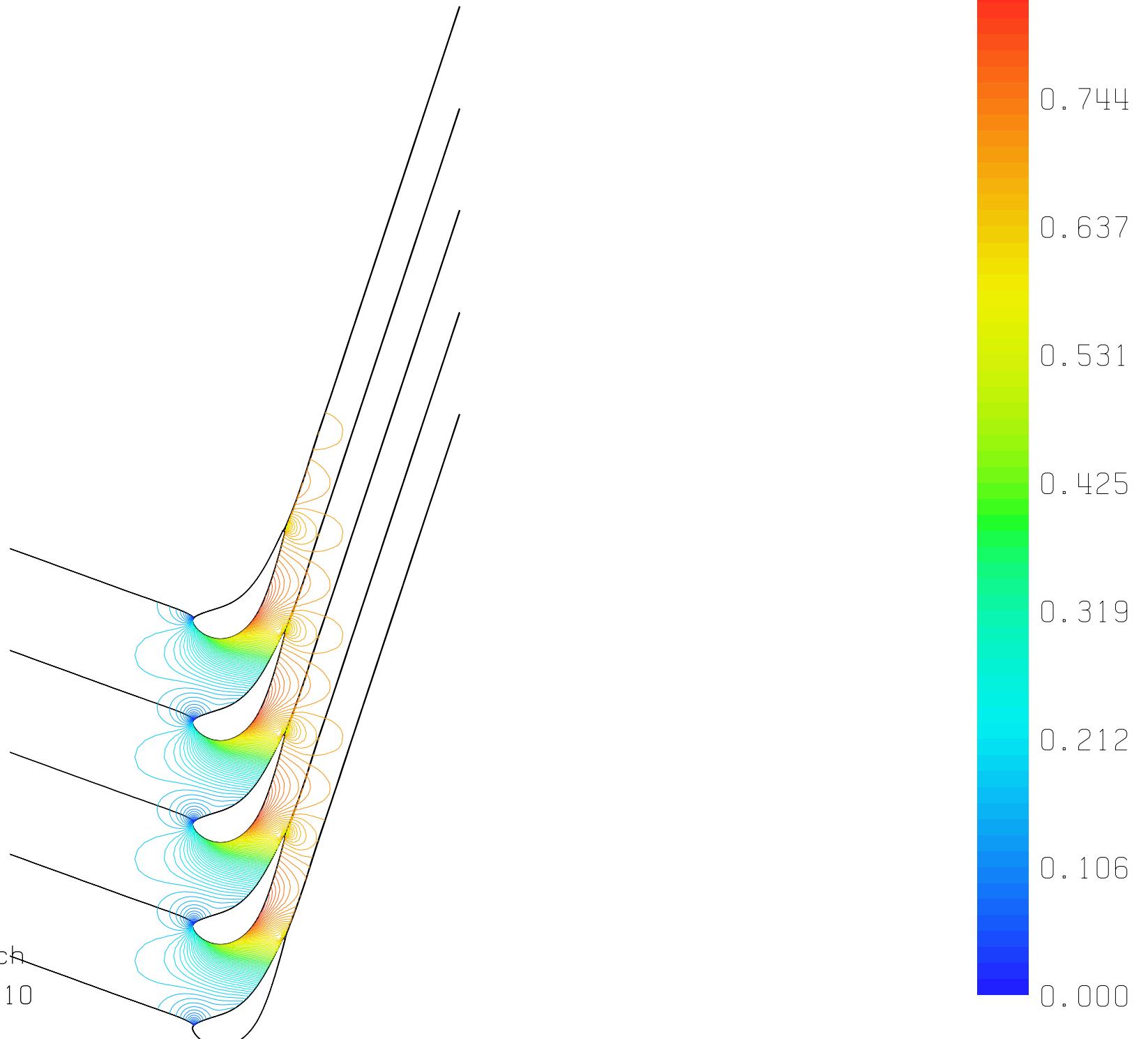




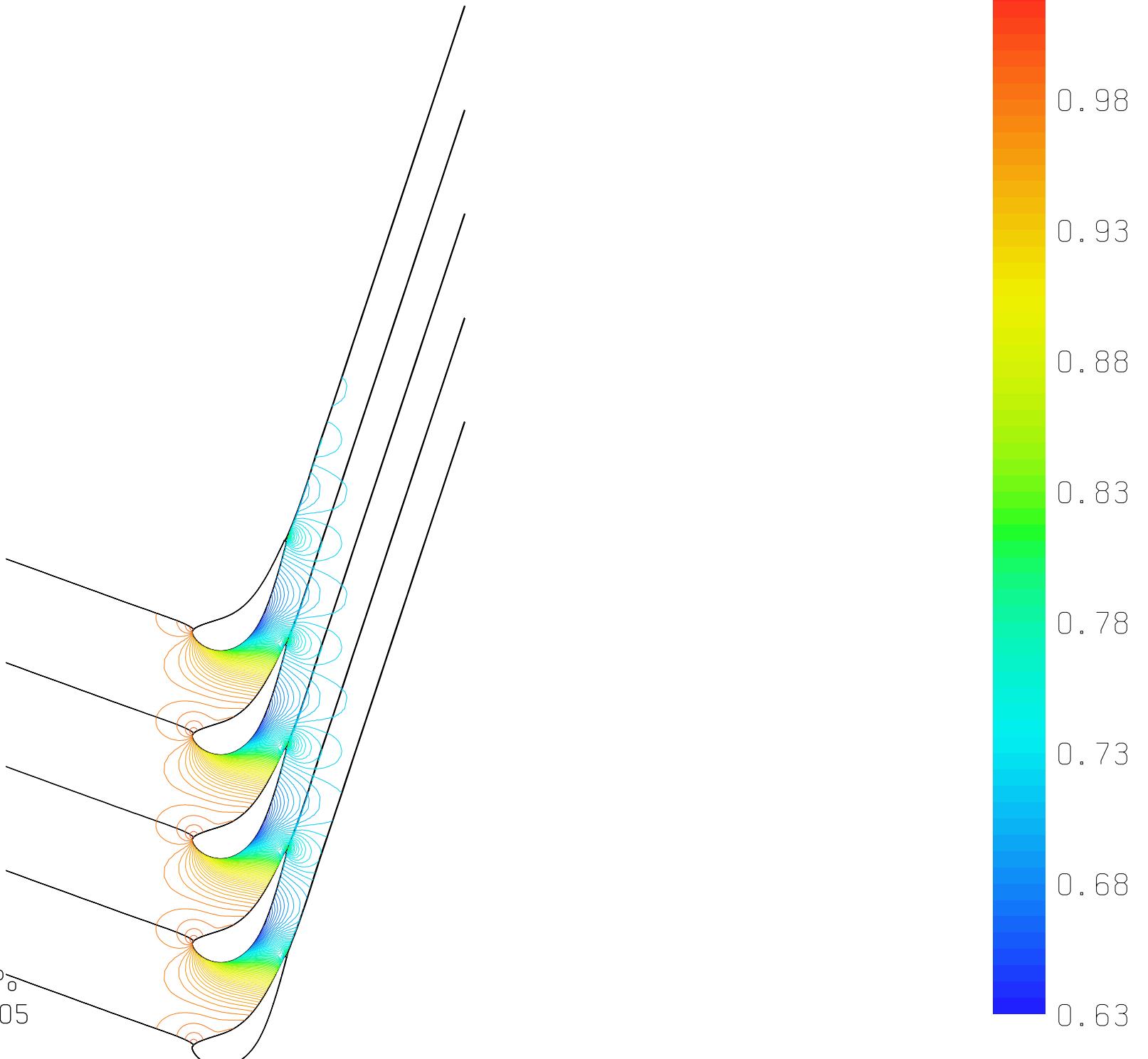


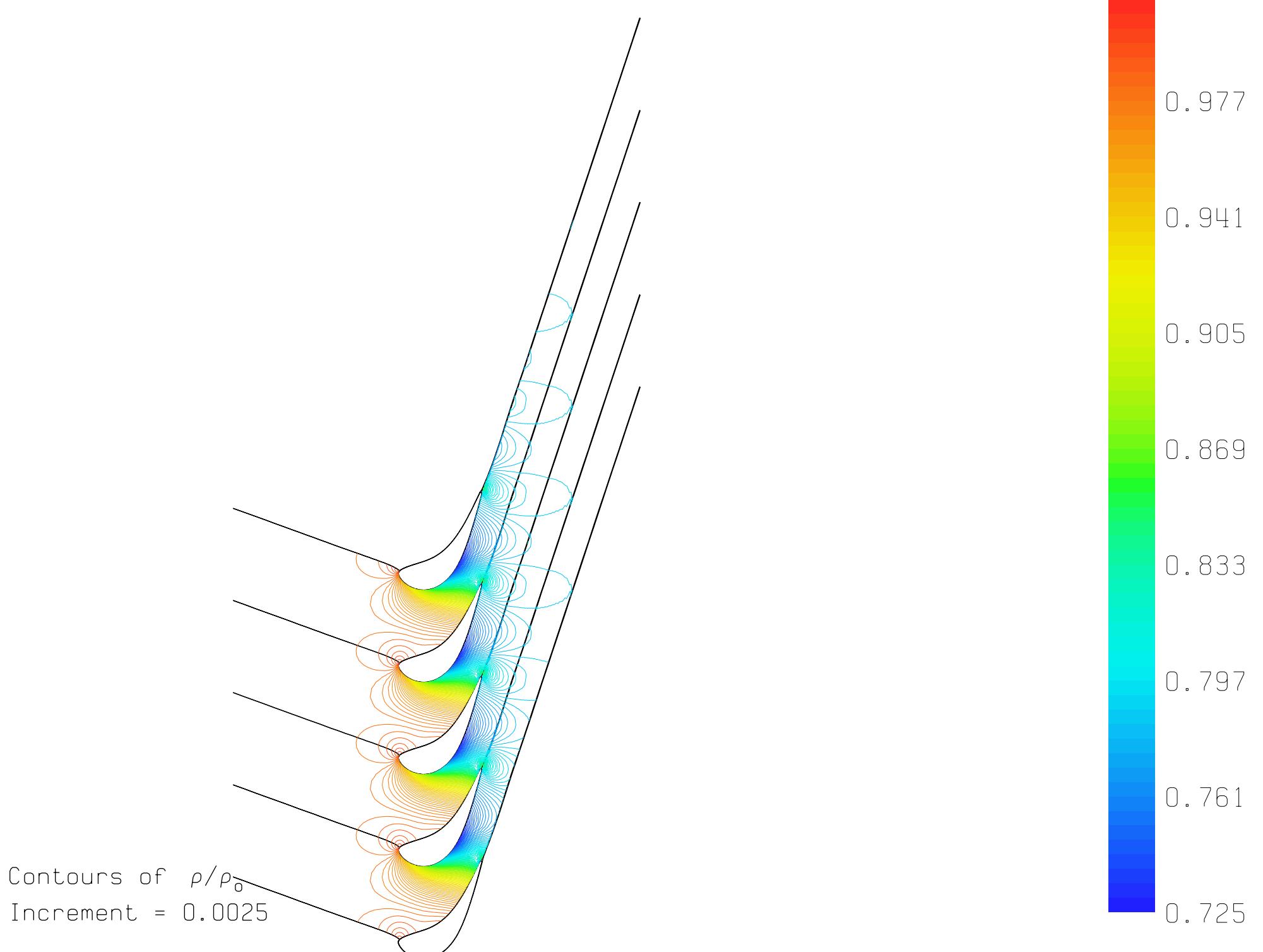


Contours of Mach
Increment = 0.010

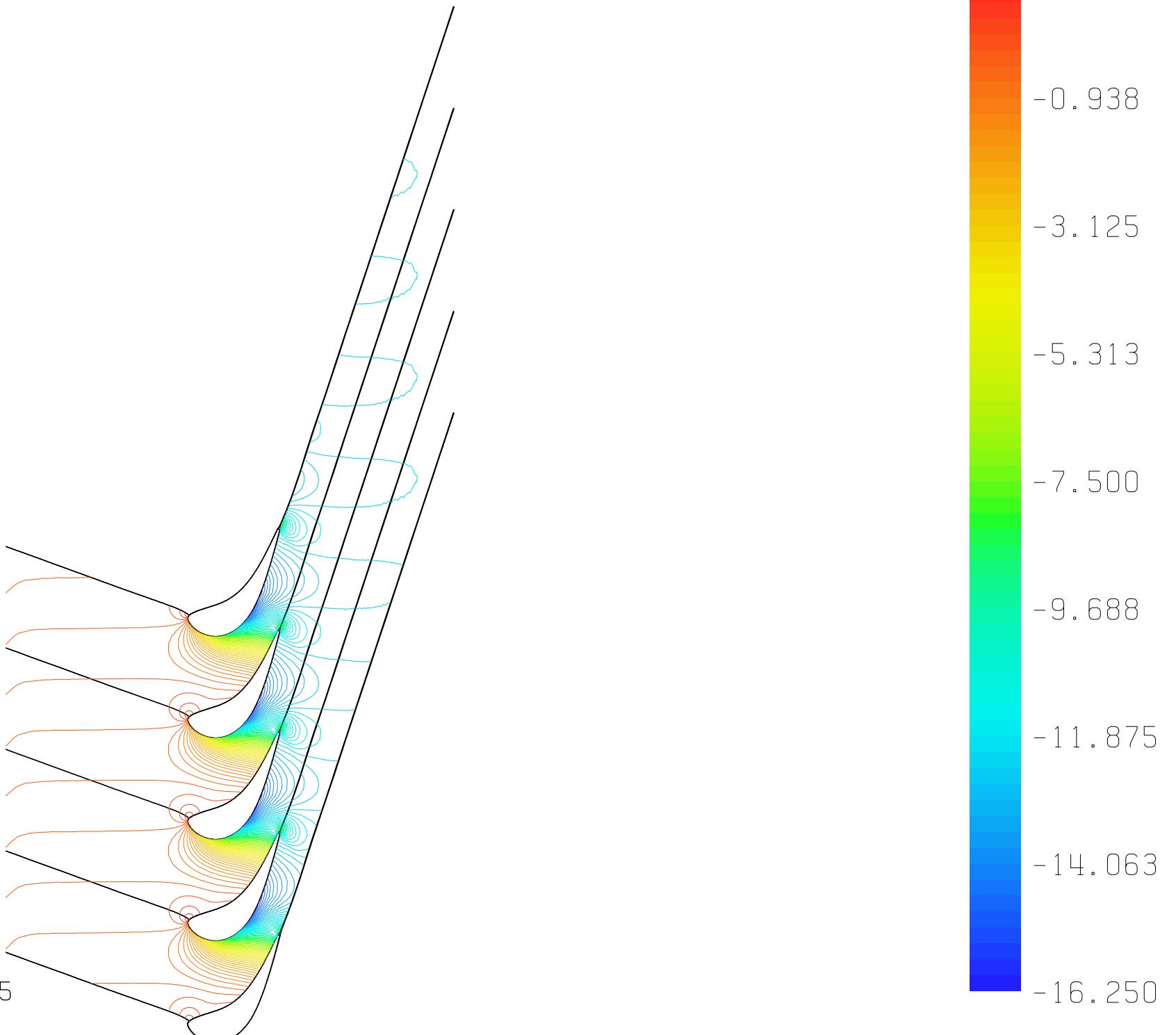


Contours of p/p_0
Increment = 0.005

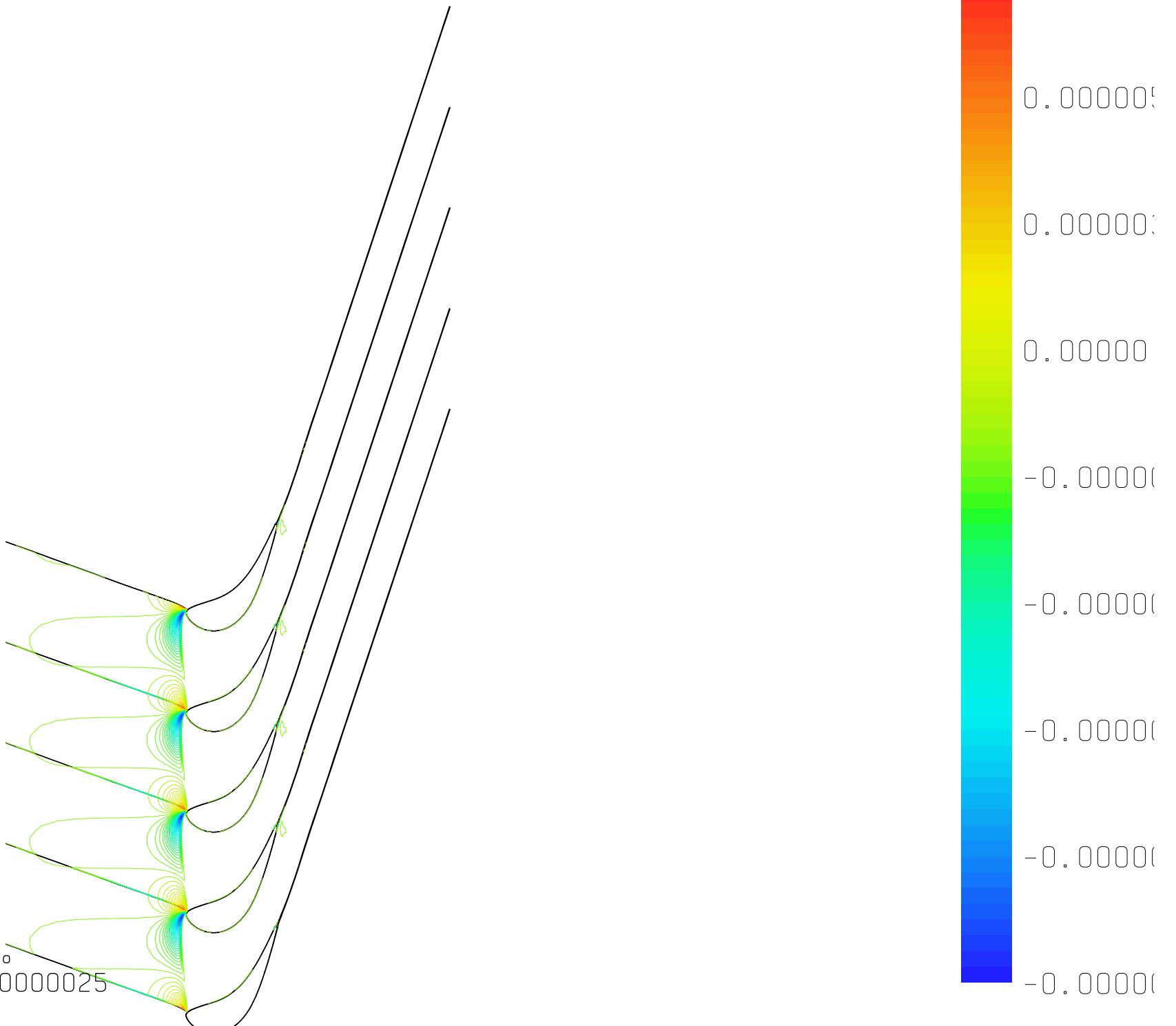




Contours of C_p
Increment = 0.25



Contours of ΔC_{p_0}
Increment = 0.00000025



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

