Temperature field in wall and gas volume during coasting (no turbulences in gas volume) Expansion Compression $\alpha = 360^{\circ} \text{ CA (TDC)}$ 1000 355 370 Temperature / K 340 800 380-320 395 600 280 410 400 240 450 $\alpha = 180^{\circ} \text{ CA (BDC)}$ 200 -0.5 -0.5 0.5 0.5 0 0

Distance from wall surface / mm