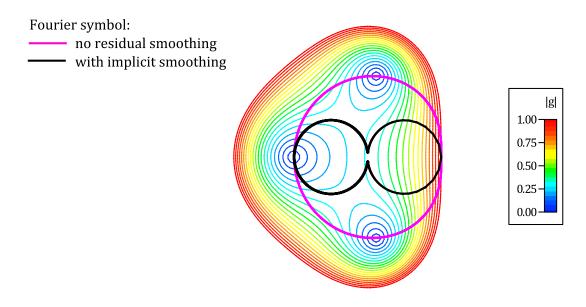
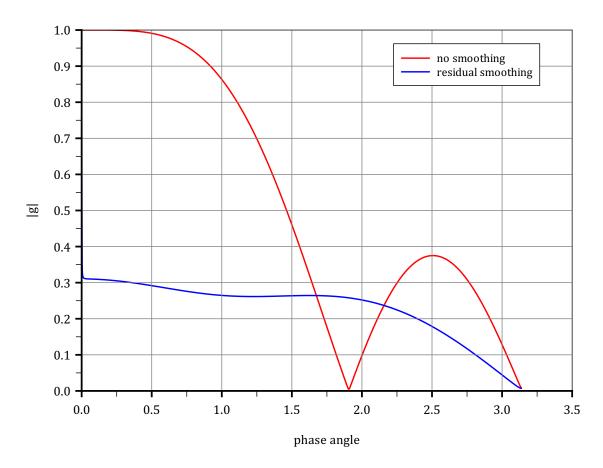
Explicit (3,3)-scheme, convection equation

Base scheme: 2nd-order upwind spatial discretization, $\sigma=0.69$. Scheme with upwind residual smoothing: $\sigma=690.7$, $\varepsilon=500$.



Fourier symbol *z* of the spatial operator and contours of the magnitude of the amplification factor |g|.



Magnitude of the amplification factor |g| over the phase angle φ .