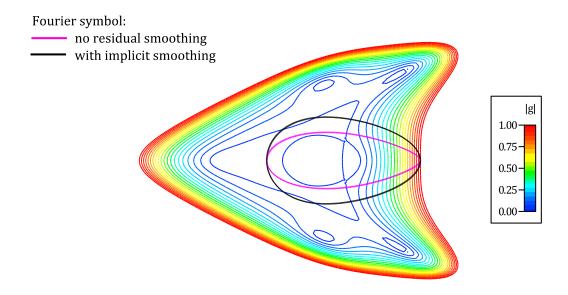
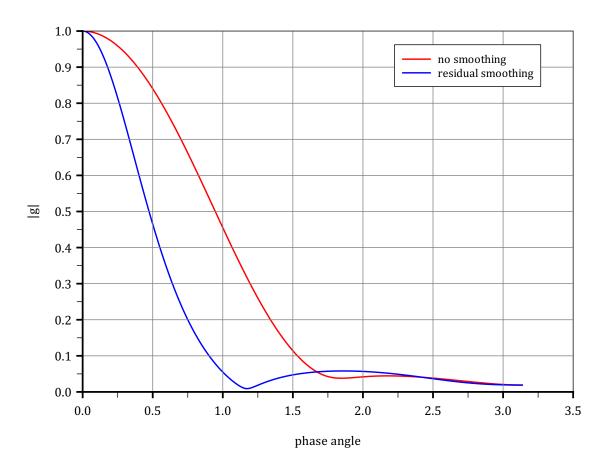
Explicit (5,3)-scheme, convection-diffusion equation

Base scheme: 2nd-order upwind spatial discretization, $\sigma=1.0$, $\Lambda_{\nu}/\Lambda=2.0$. Scheme with central residual smoothing: $\sigma=5.0$, $\varepsilon=1.0$.



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 .