$\mathcal{I}(y_k)$ for different f_m
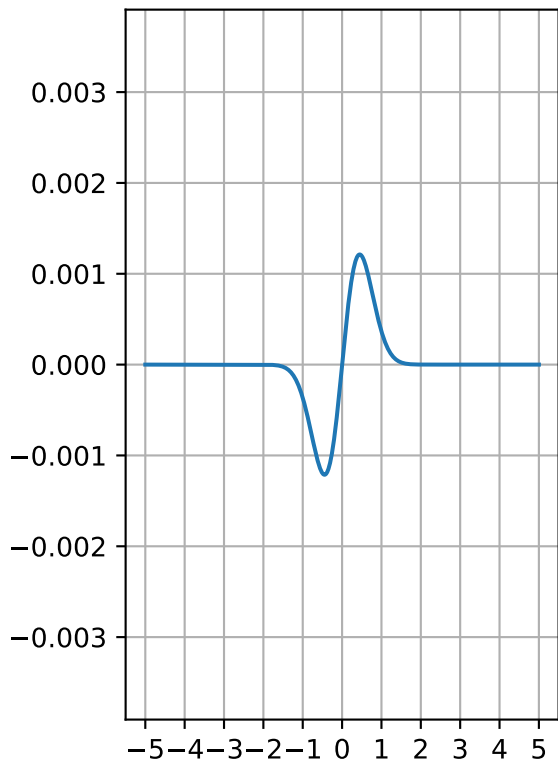
$m = 8,\ f_m = 0.199494$

$m = 32,\ f_m = 0.068111$