r_3S_4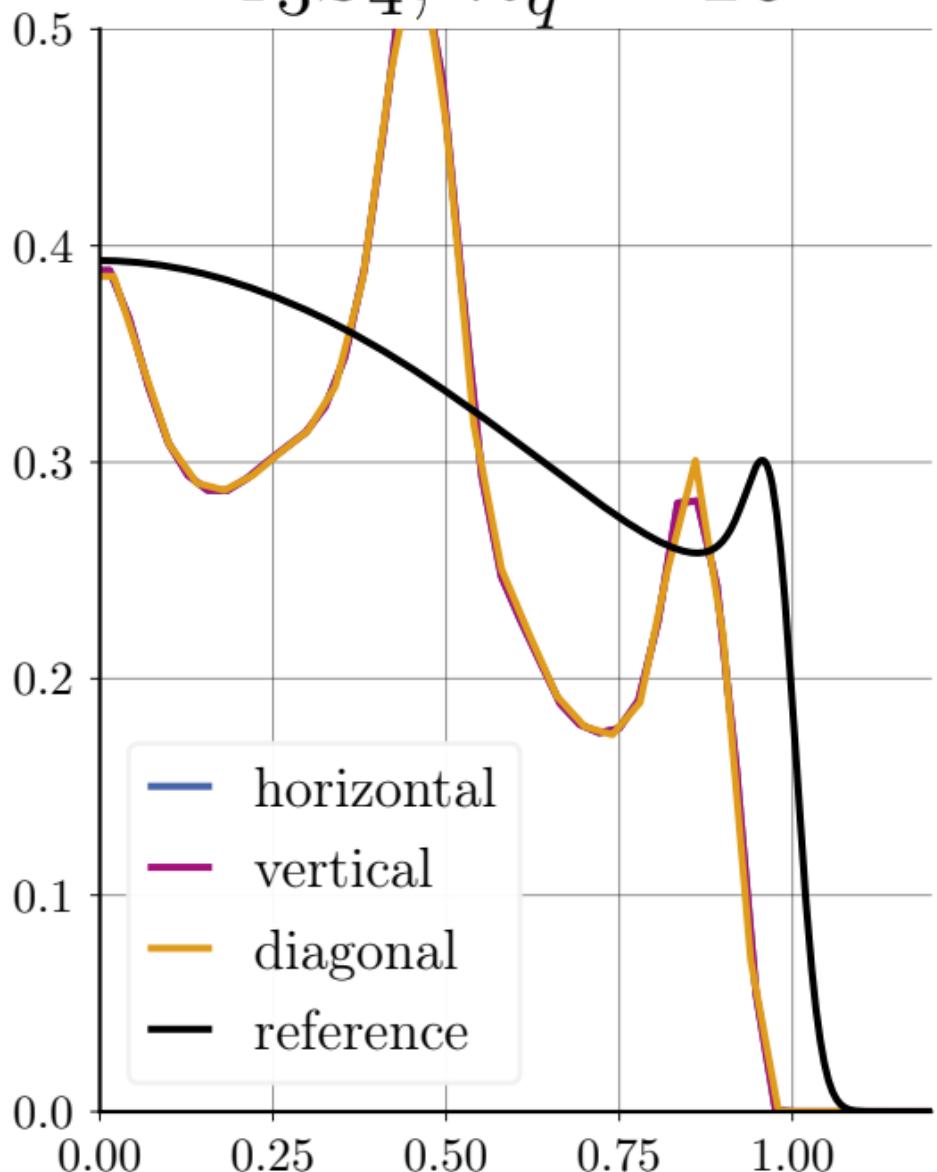, $n_q = 16$