

$$\begin{array}{ccccc}
 \text{---} & \ell = 1 & \text{---} & \ell = 2 & \text{---} & \ell = 3 & \text{---} & \ell = 4 & \text{---} & \ell = 5
 \end{array}
 \quad n_m = 1 \quad \gamma/\omega_p \approx 10^{-2}$$