



## Low-lying spectroscopy of 200

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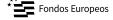












## A recap on spectroscopic factors

**Spectroscopic factors** shed light on the occupancy of single-particle states:

$$\left.\frac{d\sigma}{d\Omega}\right|_{\rm exp} = C^2S \cdot \left.\frac{d\sigma}{d\Omega}\right|_{\rm s.p}, \quad \sum C^2S = (2j+1) \ {\rm in} \ {\rm IPSM}$$

## **Experimentally:**

Reduction of  $\sim 65 \%$ !

- Short-range correlations: tensor forces,...
- Long-range: vibrations, giant resonances,...

