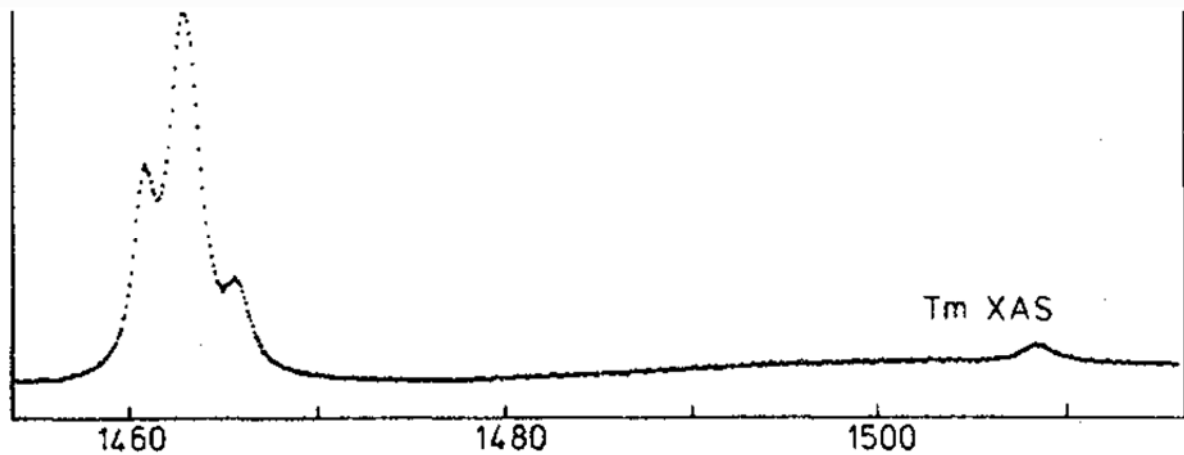


Atomic multiplet spectra of rare earths



- Calculate the 3d XAS spectrum of Tm metal. Try Tm²⁺, Tm³⁺ and Tm⁴⁺. Try also to switch off the valence band spin-orbit coupling.
- What is the valence of Tm in Tm metal?
- Why can one calculate the 3d XAS spectrum of Tm metal with an atomic calculation?