

Excited energy levels (S_1)

Laser



The diagram illustrates the process of laser excitation and fluorescence. It features two sets of horizontal lines representing energy levels. The upper set, labeled 'Excited energy levels (S_1)', consists of five lines, with the top two being thicker. The lower set, labeled 'Ground energy level (S_0)', also consists of five lines, with the bottom two being thicker. A vertical line connects the ground state to the excited state. A blue wavy arrow labeled 'Laser' points from the ground state to the excited state. A red wavy arrow labeled 'Fluorescence' points from the excited state to the ground state. A grey arrow points from the top of the excited state down to the middle of the excited state, indicating a non-radiative transition.

Fluorescence

Ground energy level (S_0)