



Figure 1: Typical energy levels for π -orbitals of a fluor molecule. Spin singlet (S) and triplet (T) states are separated for clarity. The ionization level I_π is shown at the top. Excited states as well as vibrational sublevels (dashed horizontal lines) are shown. Internal degradation is a non-radiative process, while fluorescence and phosphorescence are radiative decays. The decay $T_0 \rightarrow S_0$, however, is indirect, by interactions with other molecules.