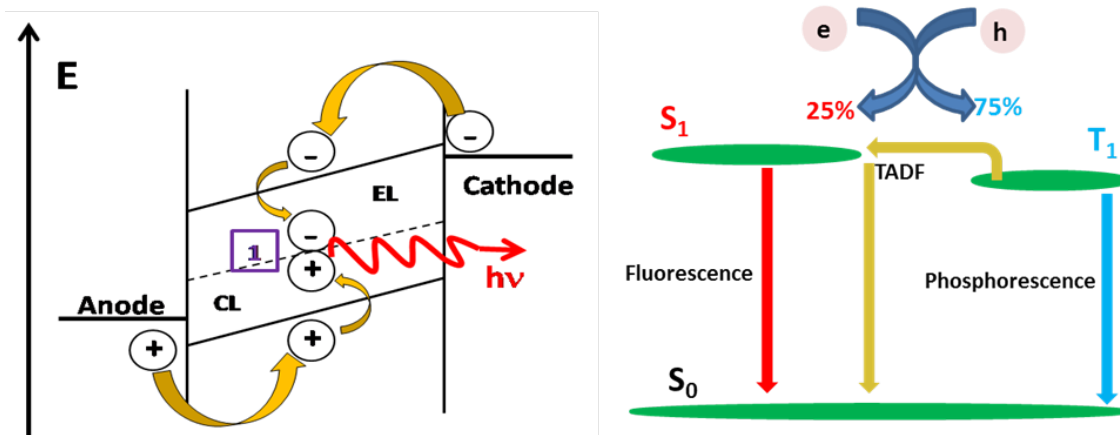


CompOLEDs



CompOLEDs “Computational studies on materials for organic light-emitting diodes (OLEDs)” aims at the refined understanding, at a molecular level, of the photochemical processes occurring in transition metal complexes and organic dyes used as phosphors and fluorophores in OLEDs. Hence, in this research project we propose the computation of the i) photophysical properties, ii) steady-state and dynamic properties and iii) reliable potential energy surfaces, which are mandatory to get insights into the electroluminescence properties. The design of photoactive materials with tailored photochemical properties is very often done in a trial-and-error manner. Instead, accurate predictive tools would be highly desirable. In this regard, CompOLEDs involves also the cooperation with experimental partners, and it is expected to pave the way to the next generation of OLEDs materials.