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### **Electrodeposition and characterization of CuSbSe<sub>2</sub> thin films**

Electrodeposition is one of the main thin films deposition technique in the laboratory of materials and renewable energies (LMER) on the faculty of sciences Ibn Zohr of Agadir\_Morocco. Among the compound that are already elaborated, ZnO, Cu<sub>2</sub>ZnSnS<sub>4</sub>, Cu<sub>2</sub>O, In<sub>2</sub>O<sub>3</sub>, CuInS<sub>2</sub> and very recently CuSbSe<sub>2</sub>.

The seminar will be focused on the results obtained so far on the different electrodeposition techniques used to develop CuSbSe<sub>2</sub> thin films, as well as some characterization results such as XRD, SEM and UV-Vis spectrophotometry.

It will conclude its presentation with a summary of some other types of thin films such as Cu<sub>2</sub>O, CZTS and CIS.