

# Fabrication of **bright glass phosphors** for radiation detector

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Glasses have long been used for optical materials because of their advantages over other materials system in wide composition range etc. In this seminar, we will synthesize **glass phosphors** of various composition.



Various luminescence color (wavelength) can be obtained by using various metal ions as “luminescent centers”.

We will synthesize glass phosphors applicable to radiation detection. One is real time sensor, i.e., “**scintillator**”. The others are “**thermoluminescence (TL)**” or “**optically-stimulated luminescence (OSL)**” materials for dose measurements.

