



SEMINAR ANNOUNCEMENT

“Foundations of thermoluminescence with illustrations from some practical applications”

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Thermoluminescence (TL) is defined as the emission of light from an insulator when it is heated, due to the previous absorption of energy from irradiation. During a TL experiment, one typically obtains several glow curves under different conditions. For instance, a series of TL glow curves may be obtained for a material that was irradiated at several different doses, or was preannealed at various temperatures. Usually the main goal of measuring and analysing these TL glow curves is the extraction of several parameters that can be used to describe the TL process in the material. Besides, as a result of increased human exposure to radiation and radioactive sources there has been needed to monitor human exposure to radiation. A thermoluminescent dosimeter (TLD) is the device that is used to measure personal radiation dose. In this talk, the various theoretical methods and analytical expressions used to analyse TL glow curves which are obtained from recent experimental data are presented for dosimetric purposes.