

Mechano Luminescence of Ce Doped Cdse/PVA Nano Composite

Priyanka Upadhyay¹, R.K. Kuraria², Shashi R. Kuraria³

Department of Physics, Government Model Sciences College, Jabalpur, M.P., India
priyankaupadhyay186@gmail.com and rkkurariaphysics2010@gmail.com

Abstract: *This research focuses on the Mechano luminescence of Ce doped CdSe/PVA nano composite. The Solution Casting technique is used to prepare the samples. It is discovered that the ML intensities depend on the impact velocity. Two peaks in ML intensity appear with time when the ML is induced impulsively by the impact of a moving piston on the nano composite, and it is observed that the peak intensities of the first and second peaks (I_{m1} and I_{m2}) increase with increasing impact velocity. With increased impact velocity, however, the time corresponding to the first and second maxima (t_{m1} and t_{m2}) changes towards shorter time values.*

Keywords: Nano composites, Mechano luminescence, Polymer, Impact velocity, semi-conductor