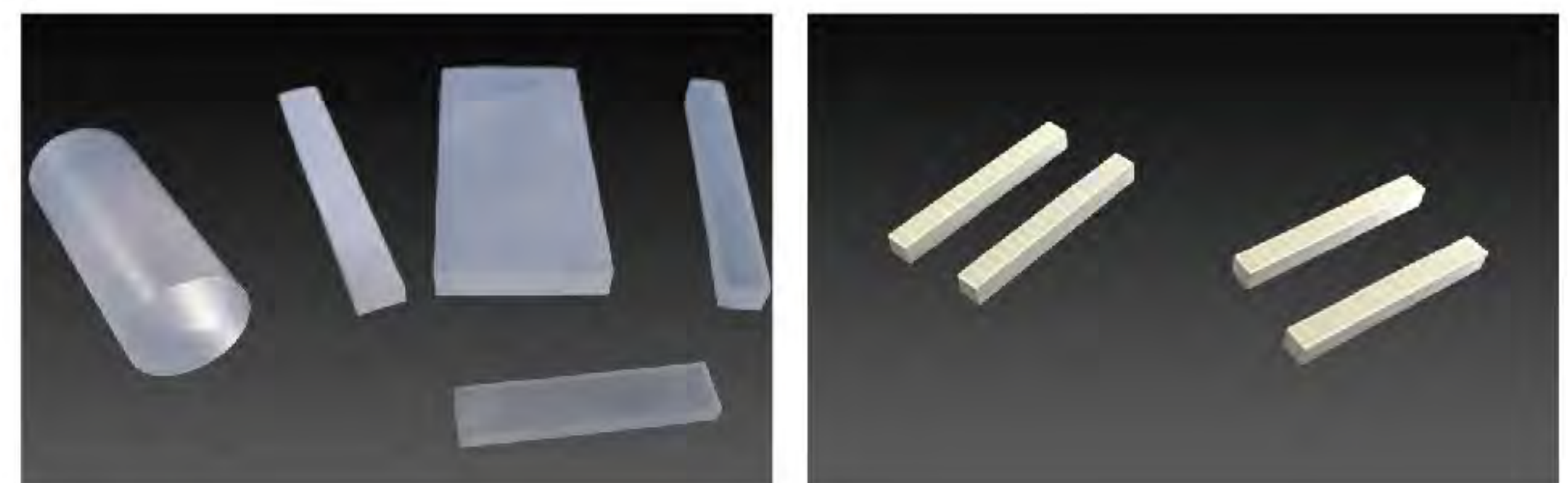


Thallium doped cesium iodide, CsI(Tl), is one of the brightest scintillation material, its emission peak was at 550 nm, which can be matched well with photo-diode, thus the read out system can be simplified a lot.

Scintillation properties	
Emission wavelength [nm]	550
Decay time [ns]	1,020
Light output [Photons/Mev]	80,000
Energy resolution [662 KeV]	7.6%
Maximum dimension	
Diameter [mm]	110
Length [mm]	300



Characterization

Dimension: 28×28×28mm

PMT: R1306, Reflector: Teflon(0.80 mm), Source: Cesium 137, HV: 650V

Light output 80,000 photons/Mev, Energy resolution 7.6%, Decay time: 1020 ns

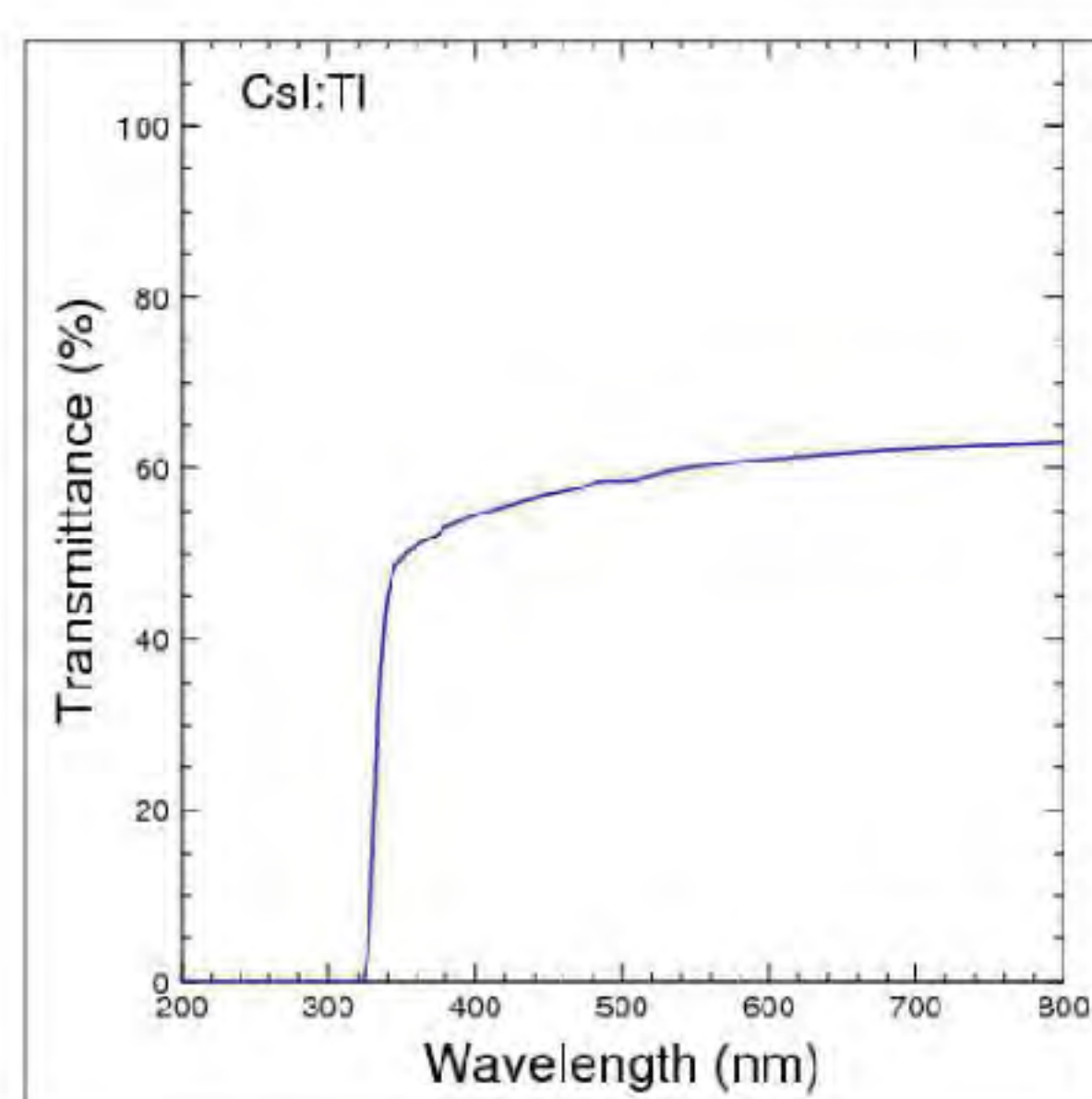


Figure 1 Transmittance curve

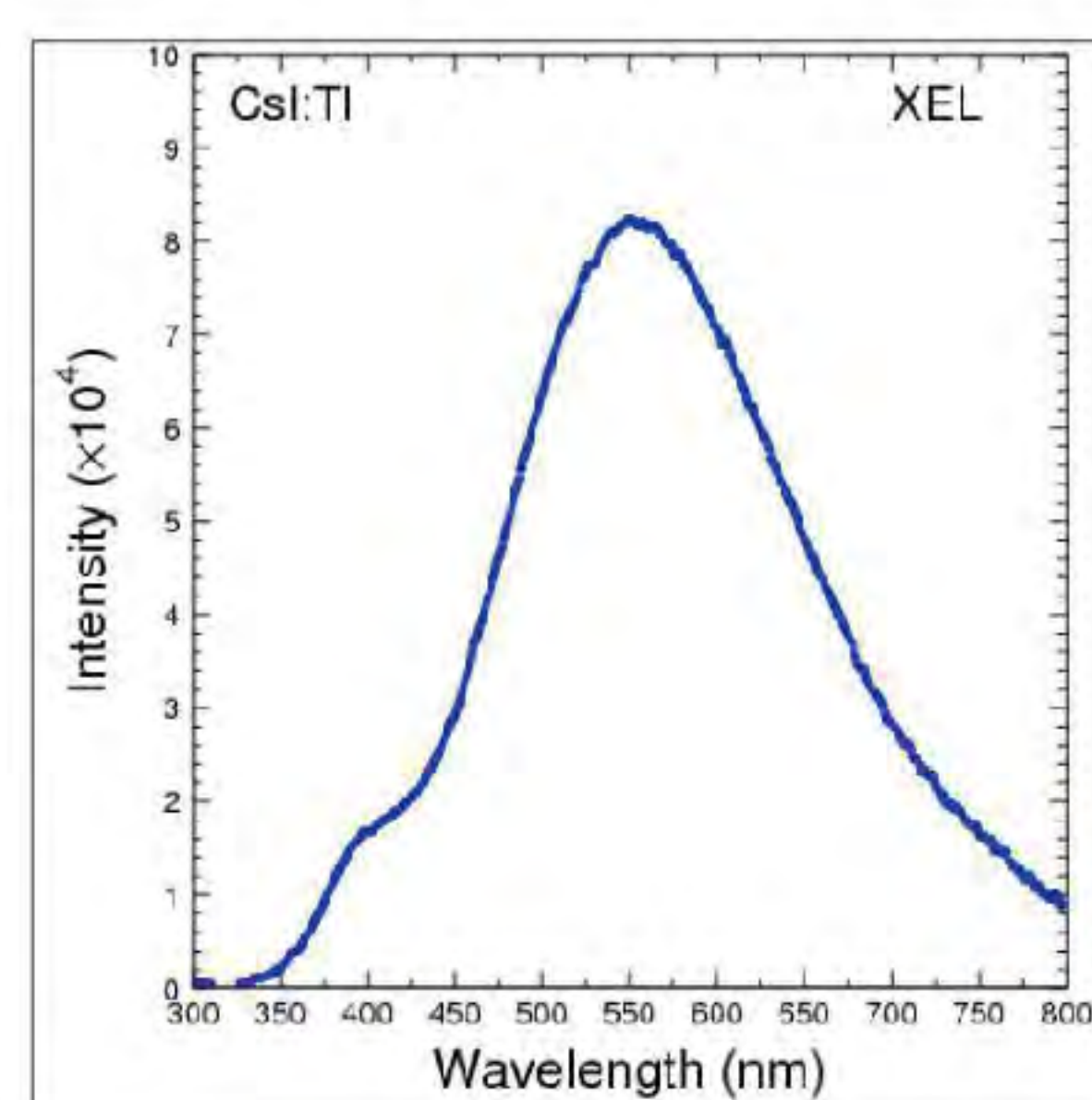


Figure 2 X-Ray excited Luminescence curve

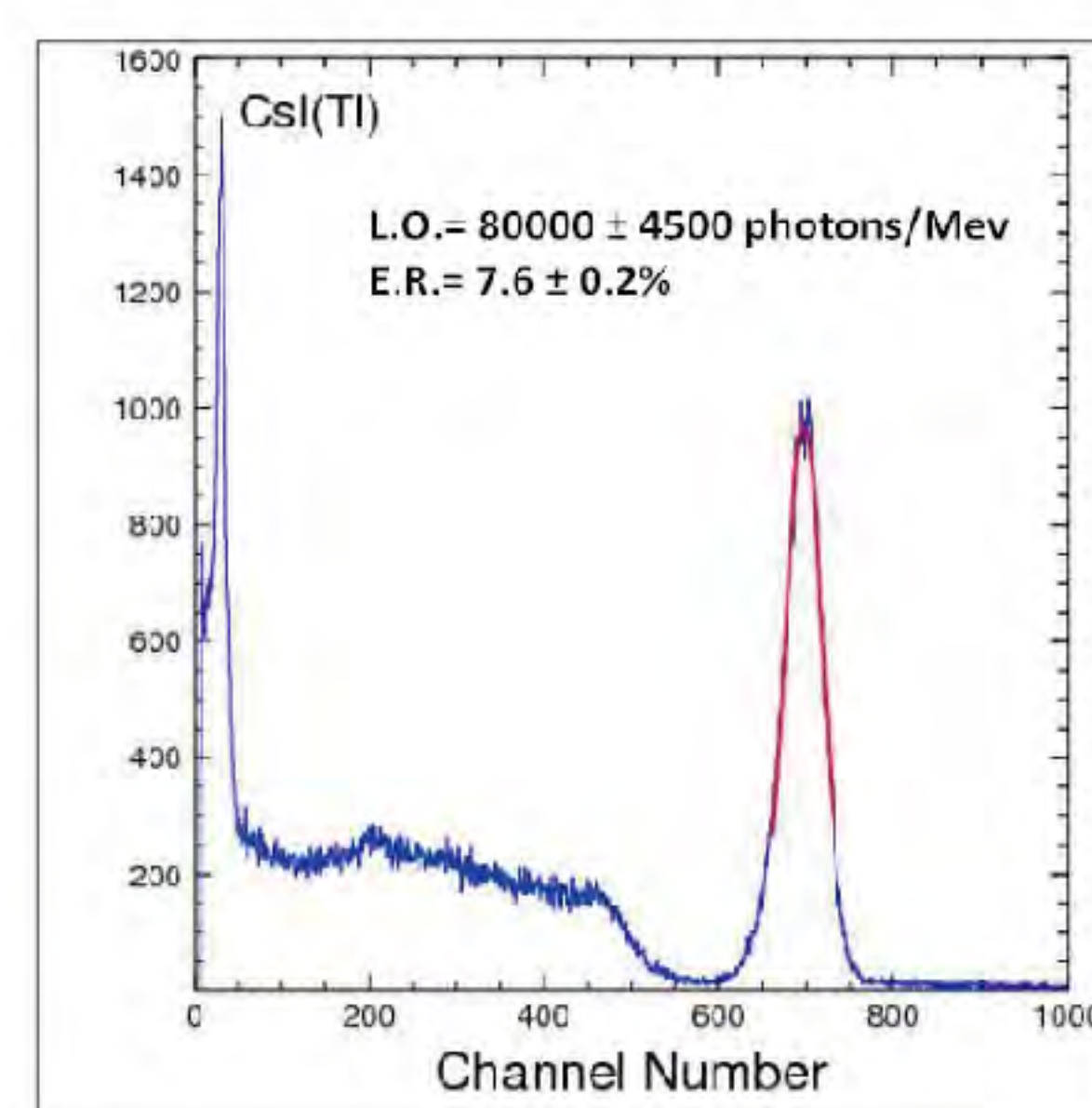


Figure 3 Light output curve & Energy resolution curve

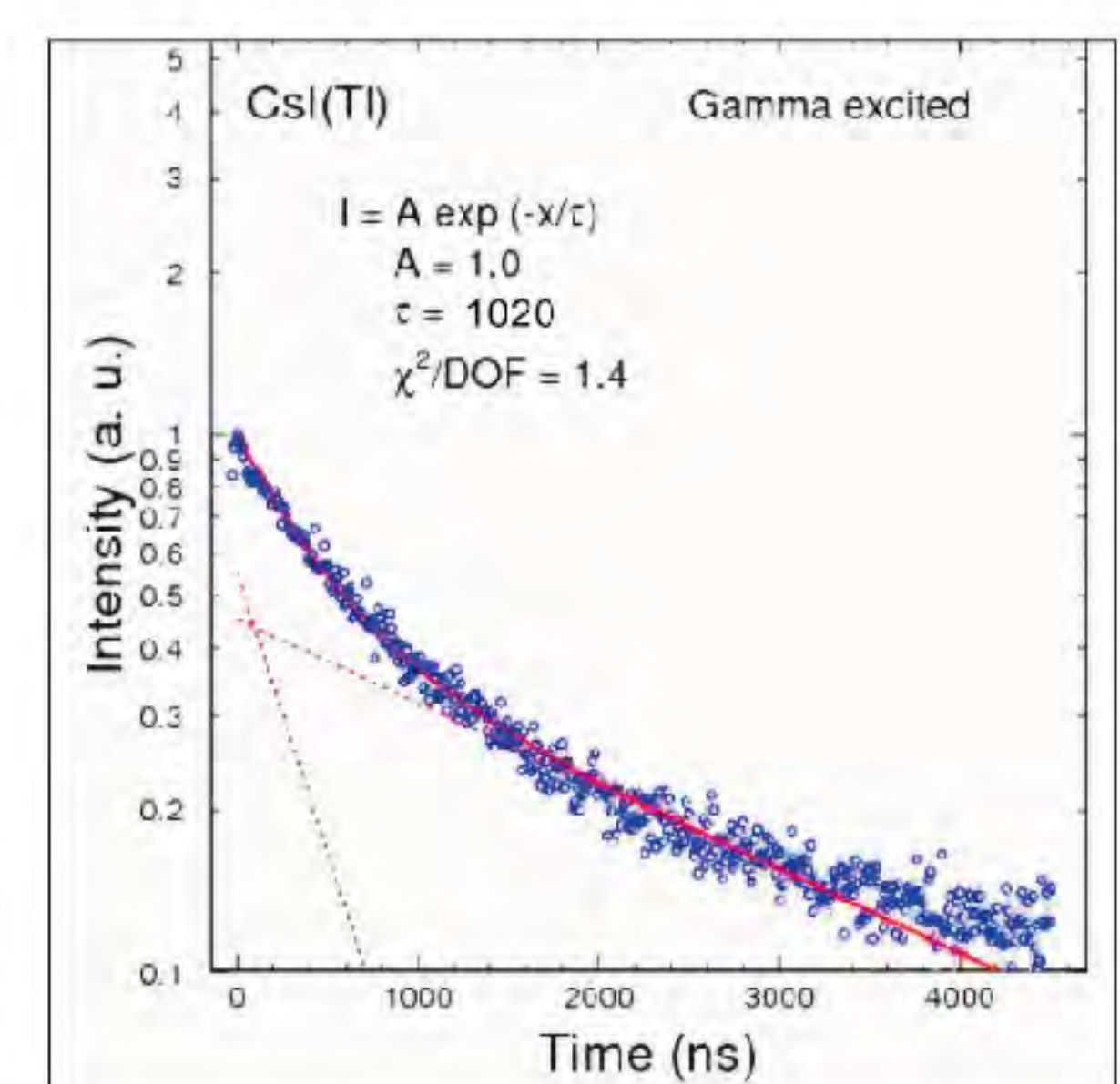


Figure 4 Scintillation decay curve by gamma ray

Contact us

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