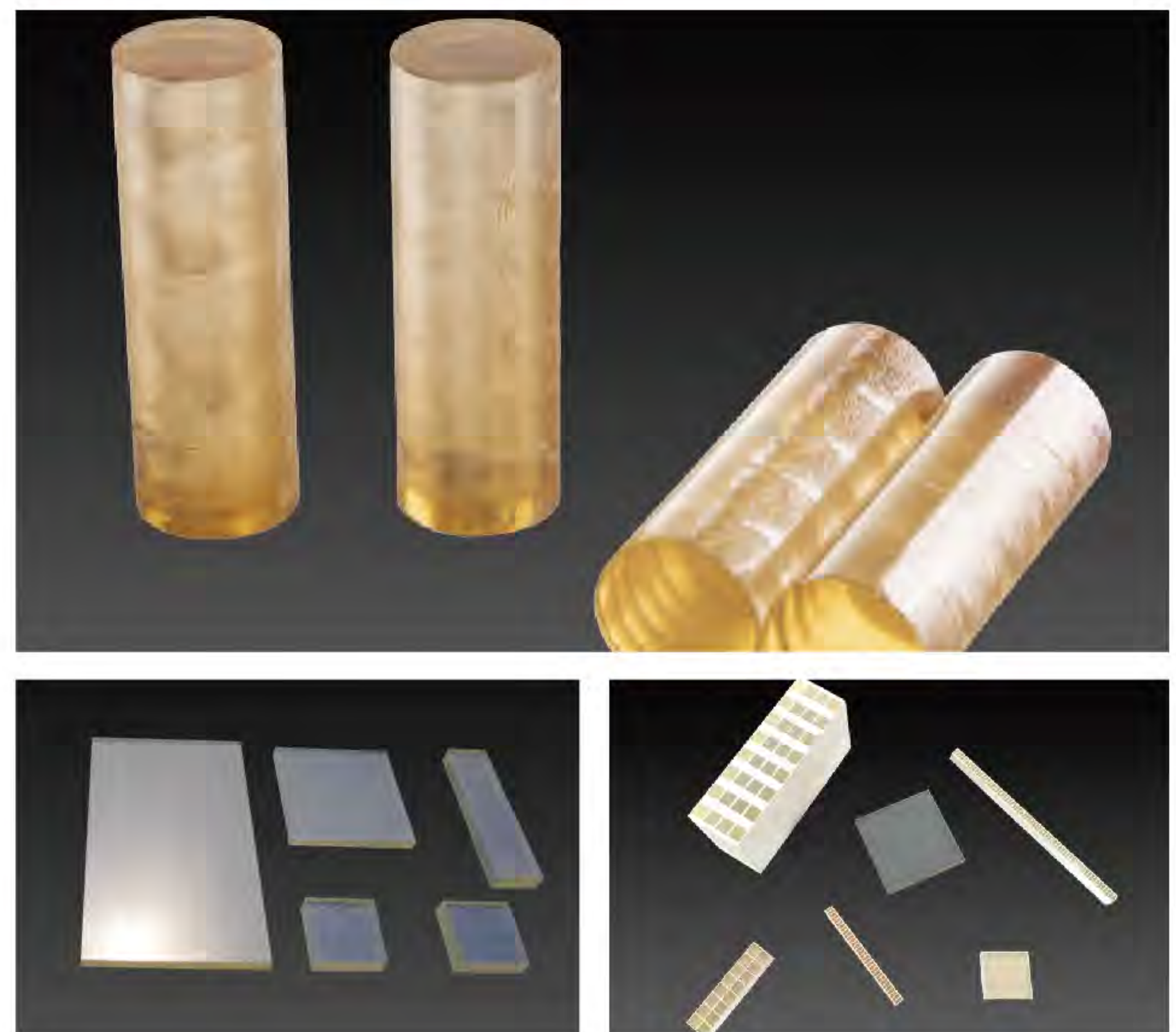


Cadmium Tungstate (CdWO₄) is a scintillation crystal with extremely low afterglow, good radiation resistance, high density and high Z value, low decay time also with relatively high light output.

Scintillation properties	
Emission wavelength [nm]	475
Decay time [ns]	12,700
Light output [Photons/Mev]	13,000
Energy resolution [662 KeV]	14.6%
Maximum dimension	
Diameter [mm]	80
Length [mm]	200



Characterization

Dimension: 16×16×16mm

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

Light output 13,000 photons/Mev, Energy resolution 14.6%, Decay time: 12,700 ns

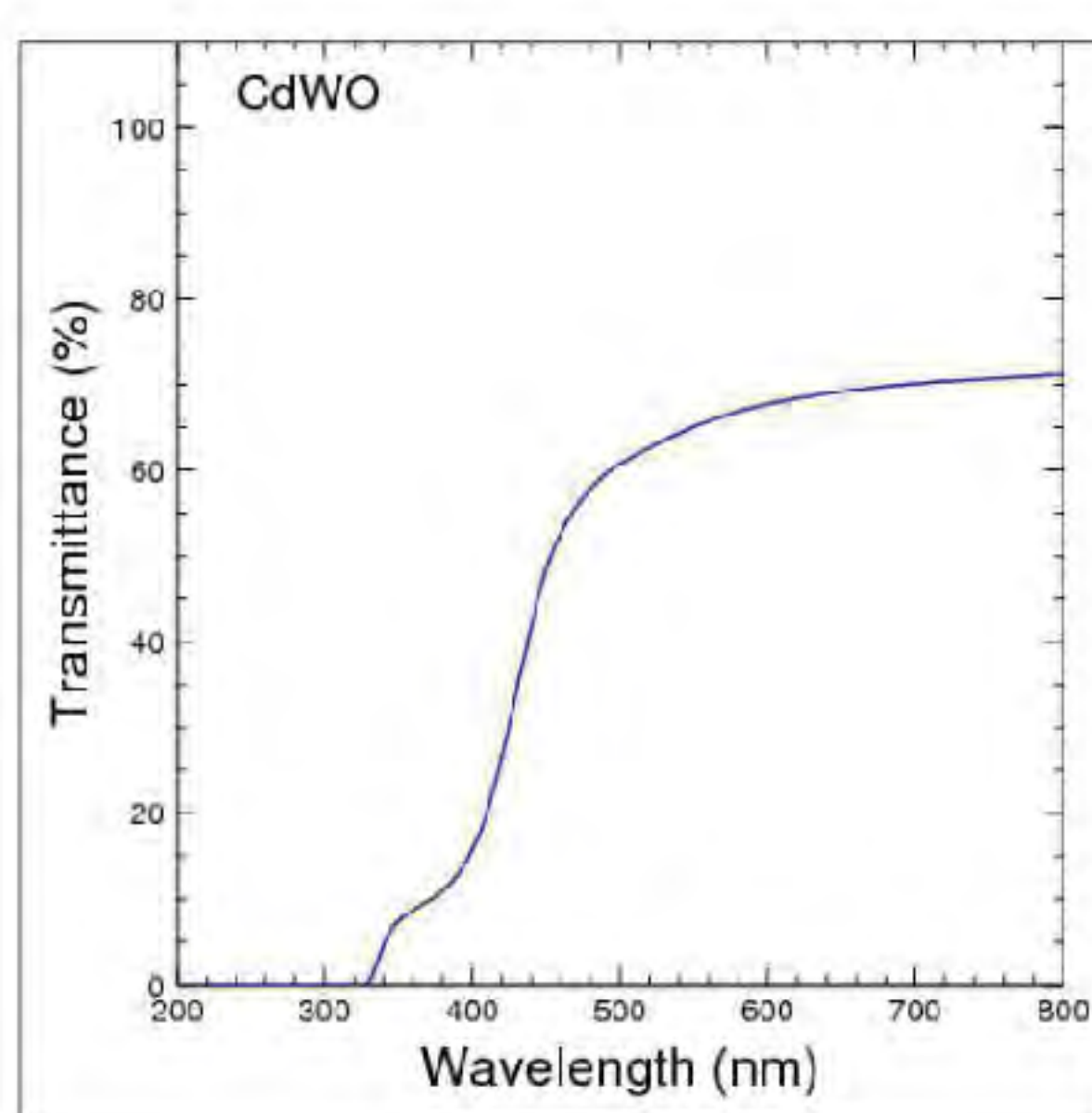


Figure 1 Transmittance curve

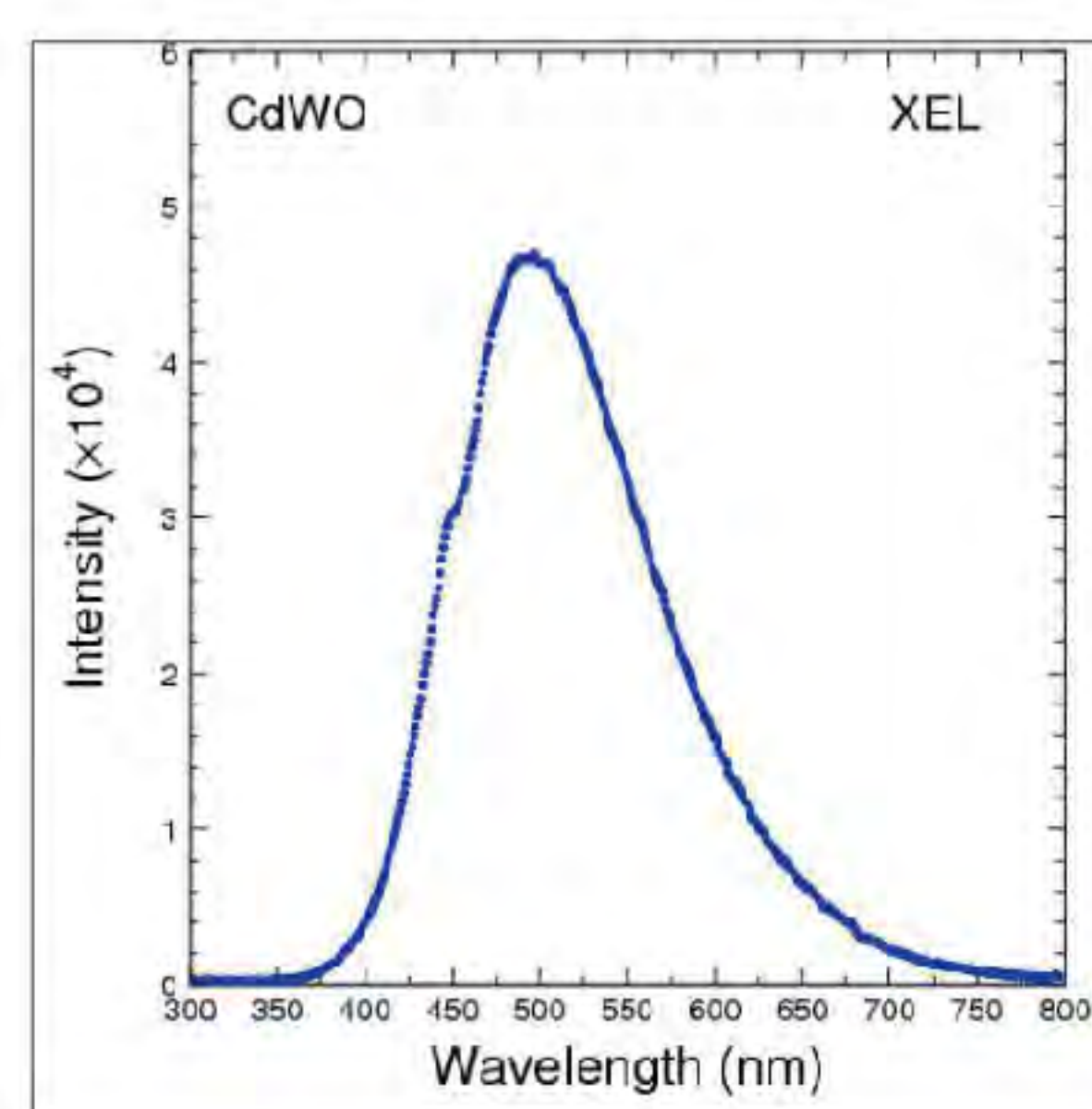


Figure 2 X-Ray excited Luminescence curve

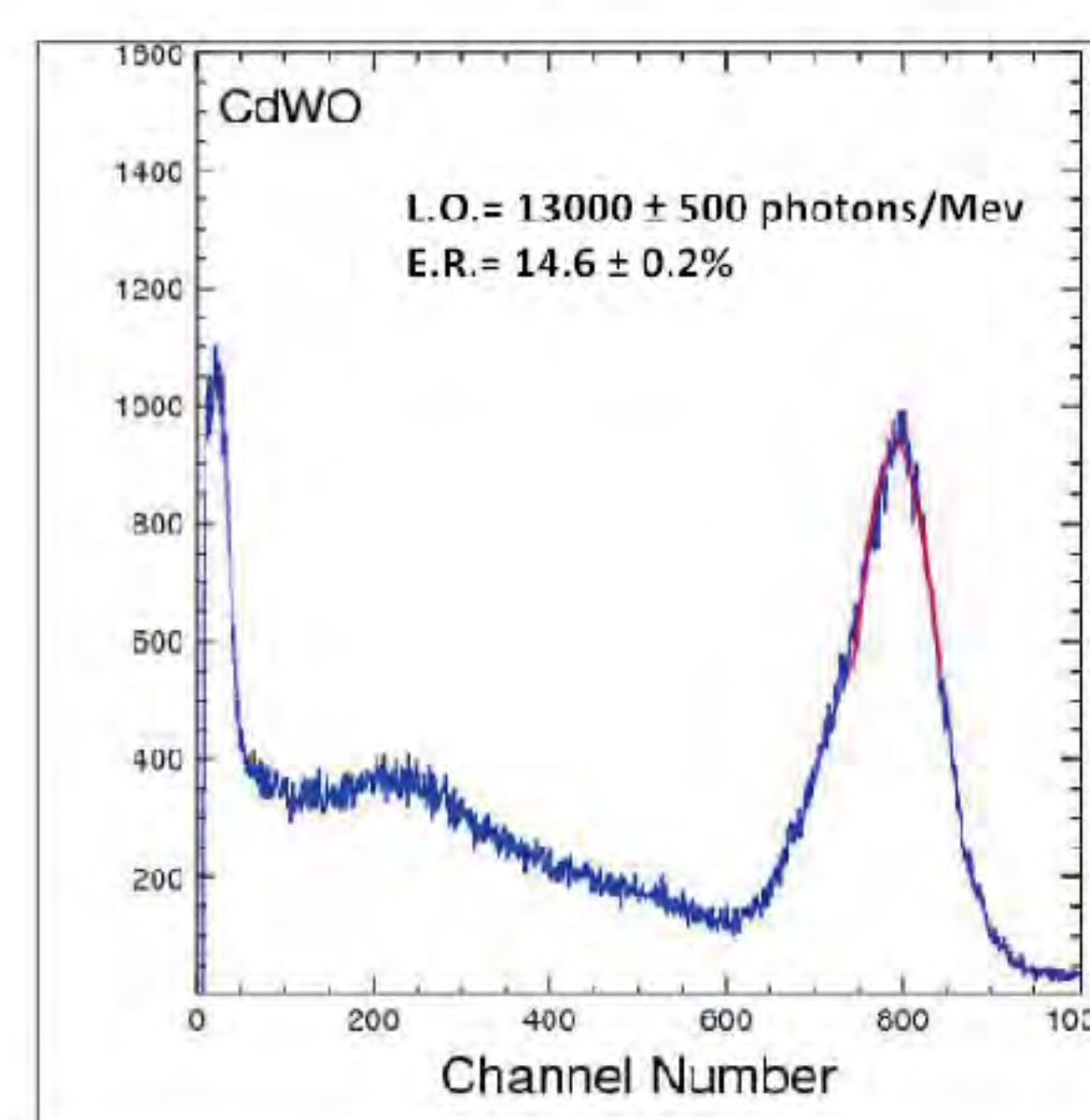


Figure 3 Light output curve & Energy resolution curve

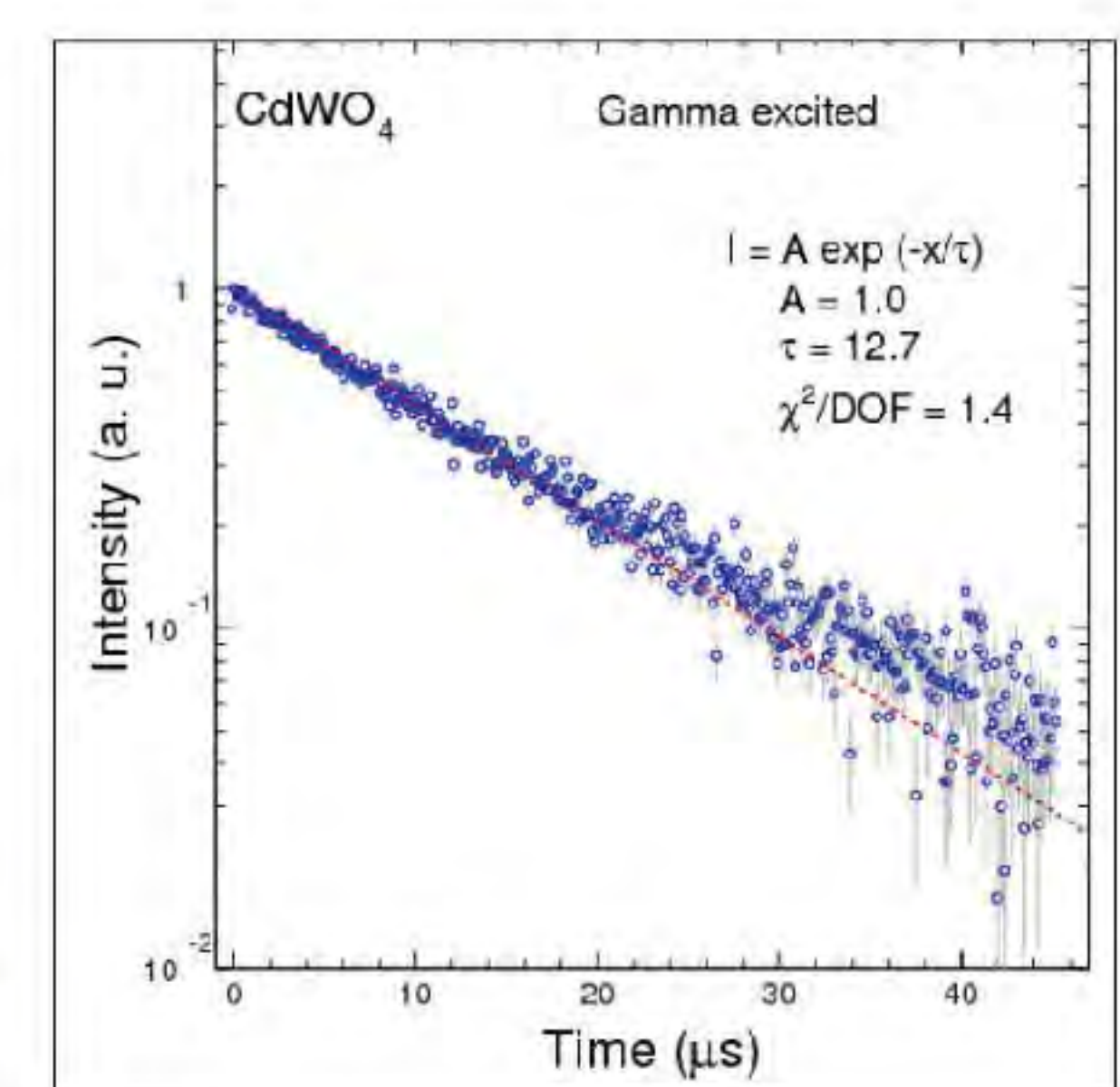


Figure 4 Scintillation decay curve by gamma ray excited

Contact us

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