



Bi₄Ge₃O₁₂

Bismuth Germanate(Bi₄Ge₃O₁₂) commonly abbreviated as BGO, is a scintillation crystal that can emit green fluorescent light with a peak wavelength of 480 nm, colorless, transparent and insoluble in water.

Scintillation properties

Emission wavelength [nm]	480
Decay time [ns]	317
Light output [Photons/Mev]	8,500
Energy resolution [662 KeV]	11.9%

Maximum dimension

Diameter [mm]	50
Length [mm]	300



Characterization

Dimension:diameter 25×25mm length

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

Light output 8,500 photons/Mev, Energy resolution 11.9%, Decay time: 317 ns

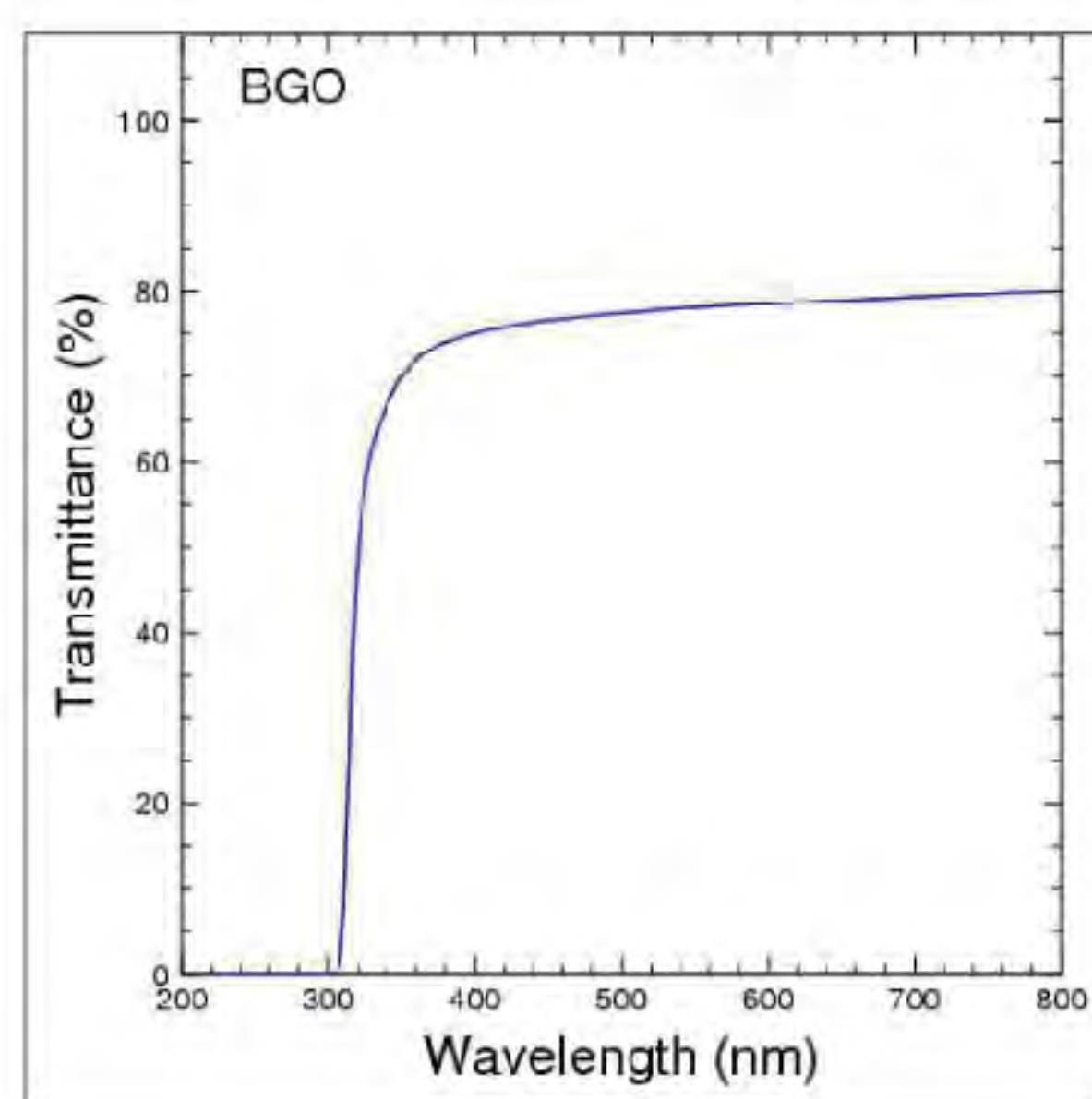


Figure 1 Transmittance curve

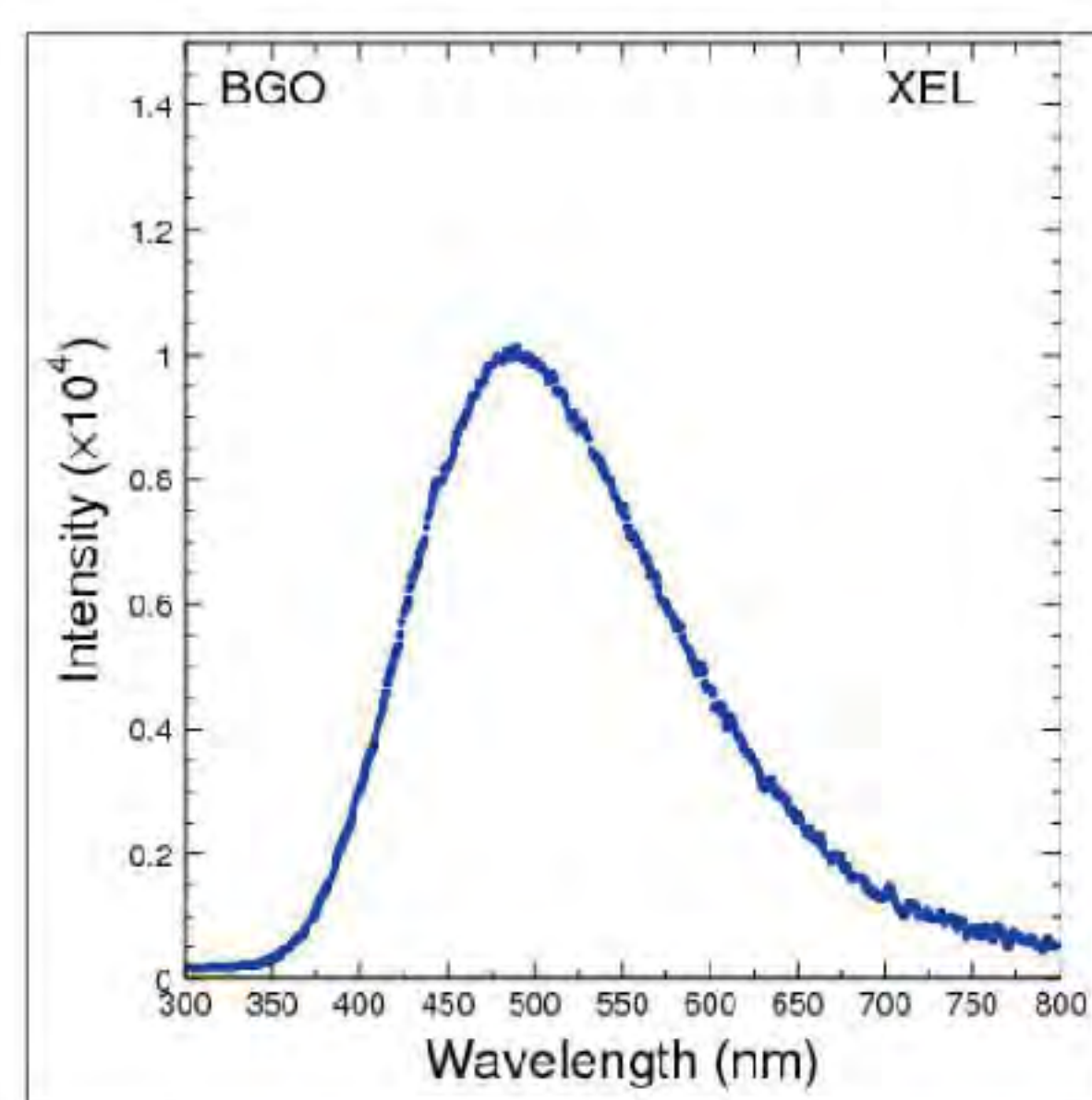


Figure 2 X-Ray excited Luminescence curve

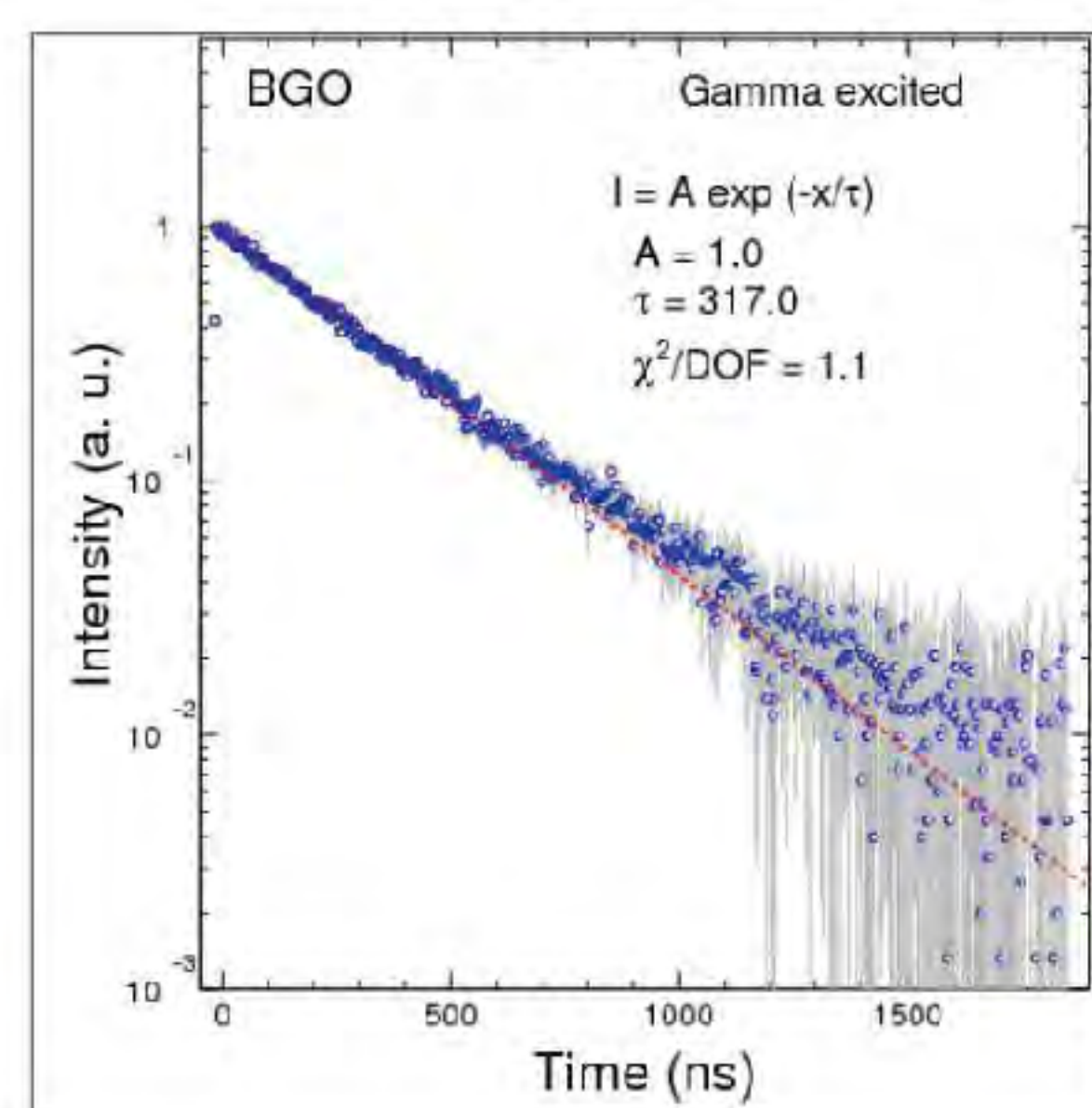


Figure 3 Light output curve & Energy resolution curve

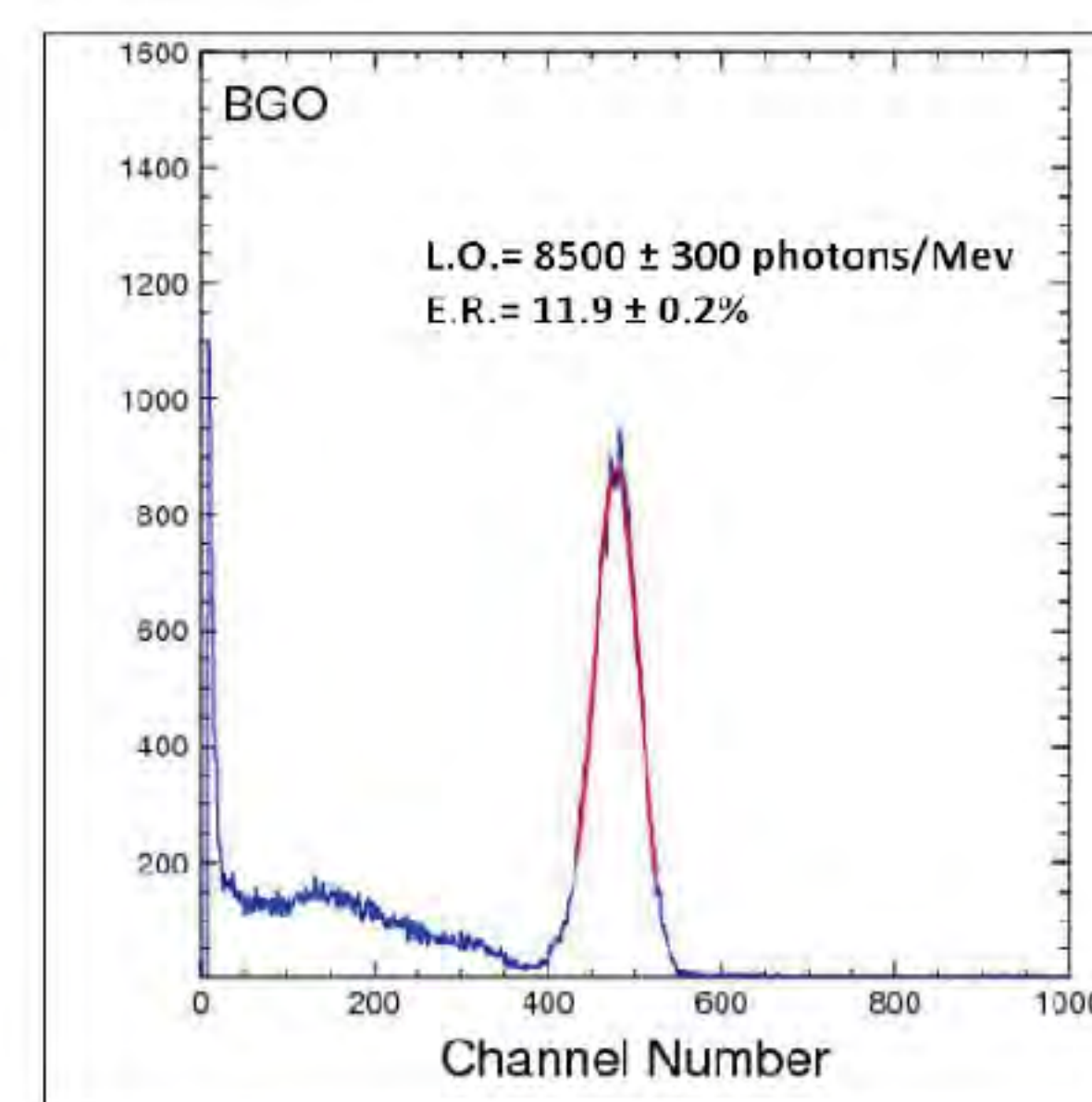


Figure 4 Scintillation decay curve by gamma ray excited

Contact us

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