

Fast-LGSO

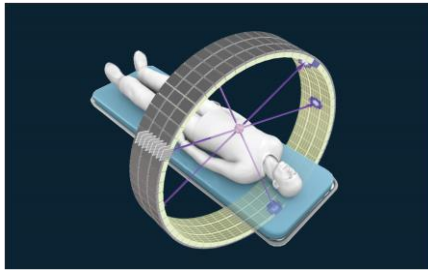
Key Scintillator Materials for Novel Radiation Detectors

Features

- ✓ Faster decay than conventional LGSO
- ✓ Other performances such as light output are similar to conventional LGSO.

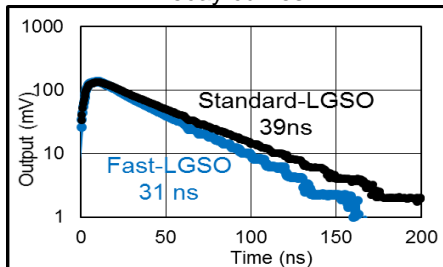
Applications

Positron Emission Tomography

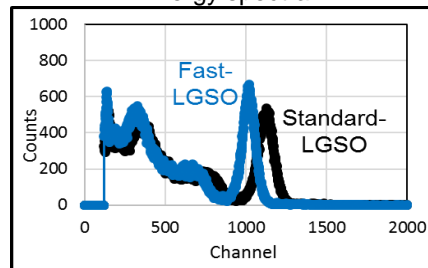


Properties

Decay curves



Energy spectra



Comparison of Typical Scintillators

	Fast-LGSO	LGSO	LSO	LYSO	NaI:Tl
Light yield (NaI=100)	~80	~80	~80	~80	100
Decay time (ns)	30 - 36	~42	~42	~40	230
DE/E (^{137}Cs , %)	8 - 10	8 - 10	8 - 10	~10	7
Density	7.3	7.3	7.4	7.2	3.7
Hygroscopicity	No	No	No	No	Yes
Self-radiation	Yes	Yes	Yes	Yes	No

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