

Crystal	Energy range	Deacay time	Energy resolution (FWHM)	Hygroscopic	Efficiency Light yield (ph/MeV)	Reference
NaI(Tl)		250ns	6.6%	Yes	38000	
BGO (Bismuth Germanate)	0.5–30 MeV (useful for photons of more than a few MeV)	300ns	9.7% FWHM at 662keV	No	8200 [15-20% of NaI(Tl)]	DIII-D
LYSO:Ce		40ns +afterglow	8.9%	No	32000	probe
YAP(Ce) Yttrium Aluminium Perovskite (Cerium)	not suited for γ -rays with an energy larger than 100 keV	27ns	4.4% at 662 keV with $3 \times 3 \times 20 \text{mm}^3$ YAP	No	35-40% of NaI(Tl)	Dr. Linhart
LaBr ³ (Ce) (Lanthanum Bromide)	insensitive to neutrons	16ns	2.6-3% at 662 keV (137Cs). Half of NaI(Tl) Above 350keV 5.1% at 1.173MeV 5.2% at 1.333MeV	Yes	1.2- 1.65 times higher efficiency than NaI(Tl) - above 350 keV 63000	JET
LaBr ³ (Ce+Sr) (Enhanced Lanthanum Bromide)		25ns	2.2% at 662 keV	Yes	73000	