

Table 1

Measurements and estimates of the average energy needed to produce a scintillation photon, $W_{\text{ph}}(\text{eV})$ in liquid Xe

Liquid rare gas	Relativistic electrons	α -particles	Relativistic heavy particles (W'_{ph} (eV))
Ar	25.1 ± 2.5	27.5 ± 2.8	19.5 ± 2.0
Xe	23.7 ± 2.4	19.6 ± 2.0	14.7 ± 1.5
	$(< 35)^{\text{a}}$	$(16.3 \pm 0.3)^{\text{b}}$	
	$(67 \pm 22)^{\text{c}}$	$(39.2)^{\text{d}}$	
	$(29.6 \pm 1.8)^{\text{c}}$		
	$(14.2)^{\text{f}}, (12.5, 12.3)^{\text{g}}$		
	$(42 \pm 0.6)^{\text{h}}$		
NaI(Tl)	$(17.2 \pm 0.4, 16.5 \pm 0.4)^{\text{i}}$		

^aRef. [27]; ^bRef. [28]; ^cRef. [29]; ^dRef. [30]; ^eRef. [31]; ^fRef. [32]; ^gRef. [33]; ^hRef. [34]; ⁱRefs. [35,36].