

Table 2

(a) Decay times for fast (τ_S) and the slow (τ_T) components of scintillation light from liquid Ar, Kr and Xe excited by 1 MeV electrons. τ_R , the recombination time, and the intensity ratios I_S/I_T of fast component to the slow components are also shown. All decay times are in ns

(b) Decay times for fast (τ_S) and the slow (τ_T) component of scintillation light from liquid Ar, and Xe excited by α -particles. The intensity ratios I_S/I_T of the fast component to the slow component are also shown. All decay times are in ns

(a)	Liquid Ar	Liquid Kr	Liquid Xe
τ_S	6.3 ± 0.2^a ns (5.0 ± 0.2 ns for $E = 6$ kV/cm) ^b 6 ± 2^b	2.0 ± 0.2^a ns (2.1 ± 0.3 ns for $E = 4$ kV/cm) ^b	(2.2 ± 0.3 ns for $E = 4$ kV/cm) ^b
τ_T	1020 ± 60^a , 1590 ± 100^b ns (860 ± 30 ns for $E = 6$ kV/cm) ^b	91 ± 2^b ns (80 ± 3 ns for $E = 4$ kV/cm) ^b	34 ± 2^b ns (27 ± 1 ns for $E = 4$ kV/cm) ^b
τ_R	< 1 ns		45^a ns
I_S/I_T	0.083^b (0.045 for $E = 6$ kV/cm) ^b 0.3^a	0.01^b (0.02 for $E = 4$ kV/cm) ^b	0.05 for $E = 4$ kV/cm) ^b
(b)	Liquid Ar		Liquid Xe
τ_S	7.7 ± 1.0^a ns $\sim 5^b$ ns		4.3 ± 0.6^a ns 3^c ns
τ_T	1660 ± 100^a ns 1200 ± 100^b ns		22 ± 1.5^a ns 22^a ns
I_S/I_T	1.3^a		0.45 ± 0.07^a 1.5^a ns

^aRef. [44]; ^bRef. [45].^aRef. [44]; ^bRef. [47]; ^cRef. [48].