

Table 10.2 from (1959AJ76): Resonances in ${}^9\text{Be}(n, n){}^9\text{Be}$

E_{res} (MeV)	${}^{10}\text{Be}^*$ (MeV)	J^π	l	Γ (keV)	σ (b)	θ_n^2 (%)	References
0.62 ± 0.01	7.37	3 3 ⁽⁺⁾	1, (2)	30 25 ± 4	3.7 ^a 4.35 ^a 7.75 ^b	1.7 ^d	(1951BO45) (1955WI25) (1955HU1B, 1958HU18)
0.81 ± 0.01	7.54	> 0 2	≥ 1 1, 2	≤ 11 8 ± 3	≈ 1.3 ^a 5.25 ^b	0.34 ^e	(1951BO45, 1955HU1B) (1955WI25, 1958HU18)
2.73 ^c (2.85)	9.27 (9.4)	(-) ^f (2 ⁺) ^f	(1)	100 (≈ 400)	≈ 4 ^b		(1951BO45) (1951BO45)

^a Cross section above background.

^b Includes background.

^c The large cross section, peak asymmetry and angular distributions suggest two resonances, a sharp one at 2.73 MeV and a much broader one at ≈ 2.85 MeV (1951BO45, 1958FO46).

^d Assuming $l = 1$, $R = 4.3 \times 10^{-13}$ cm.

^e (1956MA55), assuming $l = 1$.

^f (1958FO46).