## <sup>58</sup>Ni( $\gamma$ ,n), (e,e'n) res 1993Ra18

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- 1973RoYN (random phase approximation) noted that the T=1/2 states of 12.4-MeV, 3/2<sup>-</sup>; 13.16-MeV, 5/2<sup>-</sup>; and 13.48-MeV, 1/2<sup>-</sup>, were the principal states in <sup>57</sup>Ni fed by the 16.4-MeV GDR in <sup>58</sup>Ni and the 17.6-MeV, 7/2<sup>-</sup>, T=3/2 state was the principal state fed by the 19.4-MeV GDR in <sup>58</sup>Ni.
- 1981Br04 obtained  $\sigma(\gamma, n; \text{ bremsstrahlung})/\sigma(e, e'n; E= 38.5 \text{ MeV})=56$ ,  $\sigma(\gamma, n; \text{ bremsstrahlung})/\sigma(e, e'n; E= 77.5 \text{ MeV})=48$ ; stacked foils.
- 1984Ve11 measured the photoneutron spectra for E $\gamma \approx 15-27$  MeV and observed states at 0.95 and 2.29 MeV 13 being fed from the  $^{58}$ Ni 19.4-MeV GDR.
- 1993Ra18: Εγ= 17.9 MeV, measured energy spectrum of neutrons, compared relative probability of level occupancy with those derived from spectroscopic factors. Other: 1981KiZS.

All data are from 1993Ra18.

## <sup>57</sup>Ni Levels

E(level)	L	$C^2S$
0.0	1	1.02
768	3	0.87
1113	1	0.19
2578	3	2.8