

$^{89}\text{Y}(\text{HI},\text{HI})$

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Balraj Singh	NDS 114, 1 (2013)	20-Oct-2012

HI=t, ^6Li , ^7Li , ^9Be , ^{12}C , ^{15}N , ^{16}O , ^{19}F , ^{27}Al .

$^{89}\text{Y}(\text{t},\text{t})$: [1987En06](#): E=33 MeV. Measured $\sigma(\theta)$.

Additional information 1.

$^{89}\text{Y}(^6\text{Li},^6\text{Li}),(^7\text{Li},^7\text{Li})$: [1983Wa19](#): E=60 MeV. Measured $\sigma(\theta)$.

$^{89}\text{Y}(^9\text{Be},^9\text{Be})$: [2011PaZY](#): E=19-33.5 MeV. Measured $\sigma(\theta)$. Also ($^9\text{Be},^9\text{Be}'$).

$^{89}\text{Y}(^{12}\text{C},^{12}\text{C})$: [1981Bu08](#): E=86 MeV/nucleon. Measured $\sigma(\theta)$.

$^{89}\text{Y}(^{15}\text{N},^{15}\text{N})$: [1987DaZU](#): E \approx Coulomb barrier. Measured $\sigma(\theta)$.

$^{89}\text{Y}(^{16}\text{O},^{16}\text{O})$: [1994As03](#): E=30 MeV. Measured backscattered ^{16}O .

$^{89}\text{Y}(^{19}\text{F},^{19}\text{F})$: [1986Me06](#): E=140 MeV. Measured elastic scattering parameters, fragment mass and charge distributions.

$^{89}\text{Y}(^{27}\text{Al},^{27}\text{Al})$: [1987DaZU](#): E \approx Coulomb barrier. Measured $\sigma(\theta)$.

 ^{89}Y Levels

<u>E(level)</u>	<u>J$^\pi$</u>	<u>Comments</u>
0	1/2 ⁻	J $^\pi$: from Adopted Levels.