⁹Be(⁶⁹Co,Xγ),(⁷⁰Ni,Xγ) **2008Ad04**

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One and two proton knockout reactions. Secondary beam produced in the $^9Be(^{76}Ge,X)$ reaction with $E(^{76}Ge)=130$ MeV/nucleon. Secondary beam separated by the A1900 Fragment separator with $E(^{69}Co)=77.8$ MeV/nucleon and $E(^{70}Ni)=71.8$ MeV/nucleon. Reaction products separated with the S800 spectrograph and identified by ΔE and time of flight. Measured $E\gamma$ and $I\gamma$ using SeGA array of 16 HPGe detectors.

⁶⁸Fe Levels

E(level)
$$J^{\pi}$$
0.0 0^{+}
517 6 (2^{+})
1376 11 (4^{+})

 γ (68Fe)

$$\frac{\text{E}_{\gamma}}{517.6} \quad \frac{\text{E}_{i}(\text{level})}{517} \quad \frac{\text{J}_{\pi}^{\pi}}{(2^{+})} \quad \frac{\text{E}_{f}}{0.0} \quad \frac{\text{J}_{f}^{\pi}}{0^{+}}$$

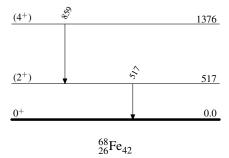
$$^{x}808^{\dagger} \quad 9$$

$$859^{\dagger} \quad 9 \quad 1376 \quad (4^{+}) \quad 517 \quad (2^{+})$$

 † Not observed in the two-proton knockout reaction.

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Be(69 Co,X γ),(70 Ni,X γ) 2008Ad04

Level Scheme



 $^{^{}x}$ γ ray not placed in level scheme.