¹⁶⁰Gd(³⁴S,X),(³⁶S,X) **1994Fo04**

 $^{33}_{14}Si_{19}$

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1994Fo04 (also 1995Fo16): E=159 MeV 34 S and 36 S beams were produced from the accelerator at ANL. Target was 1.0 mg/cm² 160 Gd (98% enriched) on a gold backing. γ rays were detected with an array of 12 Compton-suppressed Ge detectors and an inner ball of 50 BGO detectors. Measured E γ , I γ , $\gamma\gamma$ -coin, (160 Dy)(γ from 33 Si) coin and (162 Dy)(γ from 33 Si) coin. Deduced levels. Comparisons with available data.

³³Si Levels

E(level) [†]	$J^{\pi \ddagger}$
0	$(3/2^+)$
1010 1435	$(7/2^{-})$

[†] From E γ data.

[‡] From 1994Fo04.

 γ (33Si)

$$\frac{\text{E}_{\gamma}}{1010}$$
 $\frac{\text{E}_{i}(\text{level})}{1010}$ $\frac{\text{J}_{i}^{\pi}}{0}$ $\frac{\text{E}_{f}}{0}$ $\frac{\text{J}_{f}^{\pi}}{(3/2^{+})}$ $\frac{1435}{0}$ $\frac{(7/2^{-})}{0}$ $\frac{(3/2^{+})}{0}$

¹⁶⁰Gd(³⁴S,X),(³⁶S,X) 1994Fo04

Level Scheme

