²⁰⁸**Pb**(36 **S,X** γ) **2011Wa13**

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E(³⁶S)=215 MeV. Projectile-like fragments selected with the magnetic spectrometer PRISMA placed 56° to the beam axis. Measured Εγ, Ιγ, fragment-γ coincidence using the CLARA array consisting of 22 Compton-suppressed HPGe clover detectors. The ordering of the 449γ and 638γ is based on comparison to Coulomb excitation results and the assumption that Yrast states are predominately populated in deep-inelastic processes. The absence of a strong 638γ in Coulomb excitation indicates that this transition does not correspond to an E2 transition directly connected to the ground state.

⁴¹S Levels

E(level) [†]	$J^{\pi \ddagger}$
0.0	(5/2-)
449 2	$(7/2^{-})$
1087? <i>3</i>	$(11/2^{-})$

[†] From Eγ.

$$\gamma$$
(⁴¹S)

$$\frac{\text{E}_{\gamma}}{449 \ 2}$$
 $\frac{\text{E}_{i}(\text{level})}{449}$ $\frac{\text{J}_{i}^{\pi}}{(7/2^{-})}$ $\frac{\text{E}_{f}}{0.0}$ $\frac{\text{J}_{f}^{\pi}}{(5/2^{-})}$ $\frac{\text{S}_{f}}{(5/2^{-})}$ $\frac{\text{S}_{f}}{(5/2^{-})}$

[‡] Based on comparision to shell model calculations and the assumption that Yrast states are preferentially populated in deep-inelastic reactions.

[†] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

---- → γ Decay (Uncertain)

