2 H(34 Si, 35 P γ) 2007GeAA

 34 Si(d,n) 35 P on J^{π} =0+ 34 Si g.s. in inverse kinematics. 2007GeAA: 30-AMeV 34 Si beam on 30-mg/cm 2 CD $_2$ secondary target at GANIL. Heavy ions produced in reactions were identified by the VAMOS spectrometer. γ rays were detected using the EXOGAM germanium clover array. Measured Doppler-corrected E γ , I γ , $\gamma\gamma$ -coin, and (35 P) γ -coin. Deduced levels, J, π . Compared with shell-model calculations.

³⁵P Levels

E(level)		
0		
2386.5 8		
3859.9 8		
4100.9 <i>13</i>		
4492.9 <i>16</i>		
4868.9 <i>13</i>		

E_{γ}^{\dagger}	$E_i(level)$	\mathbf{E}_f
241	4100.9	3859.9
392	4492.9	4100.9
1009	4868.9	3859.9
1473 [‡]	3859.9	2386.5
2386	2386.5	0
3860	3859.9	0

 $^{^{\}dagger}$ From 2007GeAA. ‡ Placement of transition in the level scheme is uncertain.

2 H(34 Si, 35 P γ) 2007GeAA

Legend

Level Scheme

---- γ Decay (Uncertain)

