2 **H**(34 **Si**, 35 **P** γ) 2007GeZX

 34 Si(d,n) 35 P from J^{π} =0+ 34 Si g.s. in inverse kinematics. 2007GeZX: 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>

$E_i(level)$	E_f
4100.9	3859.9
4492.9	4100.9
4868.9	3859.9
3859.9	2386.5
2386.5	0
3859.9	0
	4100.9 4492.9 4868.9 3859.9 2386.5

[†] From 2007GeZX. ‡ Placement of transition in the level scheme is uncertain.

2 H(34 Si, 35 P γ) **2007GeZX**

Legend

Level Scheme

---- γ Decay (Uncertain)

