## <sup>28</sup>Si(<sup>18</sup>O,<sup>14</sup>C) **1979Be01**

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

1979Be01: E=60 MeV <sup>18</sup>O from Saclay super FN tandem accelerator. Target was 99.91% enriched <sup>28</sup>Si with a thickness of 128  $\mu$ g/cm<sup>2</sup> on a carbon backing. Reaction products were momentum analyzed with a Q3D magnetic spectrograph and detected with a gas proportional counters for particle  $\Delta$ E-E. Measured  $\sigma$ (<sup>14</sup>C, $\theta$ ),  $\theta_{cm}$ =5° to 25°. Deduced levels, J,  $\pi$ . EFR-DWBA calculations stated by author as not reproducing the data.

## <sup>32</sup>S Levels

E(level) <sup>†</sup>	$J^{\pi \dagger}$
0	$(0^+)$
2230	$(2^{+})$
4280	$(2^{+})$
4460	(4 <sup>+</sup> )
5010	(3 <sup>-</sup> )
5800	(1 <sup>-</sup> )
6760	(2,3,4,5)
7120	$(2^{+})$
7430	$(0^{-}, 1^{-}, 2^{-})$
7700	(2,3,4)

<sup>†</sup> From 1979Be01. Spin-parity is deduced based on DWBA analysis of measured  $\sigma(\theta)$  and the fact that no unnatural-parity state is measurable populated in (<sup>18</sup>O,<sup>14</sup>C) reaction, as stated by the authors.