

$^7\text{Li}(^{18}\text{O},^{17}\text{O})$ 2009Ru13

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. G. Sheu, J. H. Kelley, J. Purcell	ENSDF	5-Aug-2021

2009Ru13: XUNDL dataset compiled by TUNL, 2010.

The authors measured angular distributions of ^{17}O ions from $^7\text{Li}(^{18}\text{O},^{17}\text{O})^8\text{Li}$ at $E(^{18}\text{O})=114$ MeV. Transitions to the ground and excited states of ^{17}O and ^8Li are observed. The angular distributions are evaluated in DWBA and Coupled-Reaction-Channels analyses. Optical model potentials are deduced.

 ^{17}O Levels

<u>E(level)[†]</u>	<u>J^π[†]</u>
0	5/2 ⁺
871	1/2 ⁺
3055	1/2 ⁻
3841	5/2 ⁻
4553	3/2 ⁻
5380	3/2 ⁻

[†] Reported in (2009Ru13).