## <sup>16</sup>O(<sup>14</sup>N,<sup>13</sup>N) **1975Na15**

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

1975Na15: <sup>16</sup>O(<sup>14</sup>N,<sup>13</sup>N), E=155 MeV; measured  $\sigma(\theta)$ . <sup>17</sup>O levels deduced S. Transitions were identified to the 5/2<sup>+</sup> ground state and the 3/2<sup>+</sup> 5.08-MeV state. In addition, there were peaks observed at E<sub>x</sub>=7.5, 11.2, and 14.7 MeV. The first excited state at 0.871 MeV (1/2<sup>+</sup>) was weakly excited and could not be clearly distinguished above the tail of the ground state peak. In the analog channel <sup>16</sup>O(<sup>14</sup>N,<sup>13</sup>C)<sup>17</sup>F the ground state (5/2<sup>+</sup>) and the 5.10 MeV (3/2<sup>+</sup>) were identified together with several peaks at higher excitation energies as in the neutron stripping spectrum.

1976Mo03: <sup>16</sup>O(<sup>14</sup>N,<sup>13</sup>N), E=79 MeV; measured  $\sigma(\theta)$ . <sup>17</sup>O levels deduced S. The angular distribution for the transition to the  $2s_{1/2}$  state in <sup>17</sup>O showed an anomaly similar to that already reported in studies of <sup>12</sup>C(<sup>14</sup>N,<sup>13</sup>N) and <sup>12</sup>C(<sup>10</sup>B,<sup>9</sup>Be).

1976Ku06: <sup>16</sup>O(<sup>14</sup>N,<sup>13</sup>N), E=79 MeV; analyzed anomalous  $\sigma(\theta)$ .

1976Na09: <sup>16</sup>O(<sup>14</sup>N,<sup>13</sup>N), E=155 MeV; calculated  $\sigma(\theta)$ .

## 17O Levels

E(level) <sup>†</sup>	$J^{\pi}$	Comments
0	$5/2^{+}$	
871	$1/2^{+}$	E(level): Weakly excited; poorly resolved above the tail of the ground-state peak.
5080	$3/2^{+}$	
7500		
11200		
14700		

<sup>†</sup> Reported in (1975Na15).

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<sup>17</sup><sub>8</sub>O<sub>9</sub>