

Table 14.25 from (1976AJ04):  
Gamma rays from  $^{14}\text{N}(n, n')^{14}\text{N}^*$

$E_\gamma$ <sup>a</sup> (keV)	$E_\gamma$ <sup>b</sup> (keV)	Transition <sup>e</sup>
$2310 \pm 3$ $\equiv 3945$	$2312 \pm 3$ <sup>c</sup>	$2.31 \rightarrow \text{g.s.}$ $3.95 \rightarrow \text{g.s.}$
$1632 \pm 3$	$1634 \pm 5$ <sup>c</sup>	$3.95 \rightarrow 2.31$
$4913 \pm 3$ $\equiv 5105$	$4919 \pm 10$ <sup>d</sup> $5106 \pm 3$	$4.92 \rightarrow \text{g.s.}$ $5.11 \rightarrow \text{g.s.}$
$2789 \pm 2$	$2792 \pm 3$	$5.11 \rightarrow 2.31$
$5686 \pm 3$		$5.69 \rightarrow \text{g.s.}$
$3378 \pm 3$		$5.69 \rightarrow 2.31$
$5839 \pm 2$ $729 \pm 2$	$5835 \pm 5$ <sup>c</sup> $727 \pm 3$ <sup>c</sup>	$5.83 \rightarrow \text{g.s.}$ $5.83 \rightarrow 5.11$
	$6426 \pm 10$ <sup>d</sup>	$6.44 \rightarrow \text{g.s.}$
	$7021 \pm 10$ <sup>d</sup>	$7.03 \rightarrow \text{g.s.}$

<sup>a</sup> (1972NY02):  $E_n = 6.9$  MeV.

<sup>b</sup> (1971NY03):  $E_n = 15$  MeV.

<sup>c</sup>  $E_x(3.95)$  is then  $3947 \pm 5$  keV and  $E_x(5.83) = 5833 \pm 3$  keV.

<sup>d</sup> These  $\gamma$ -ray energies have been corrected for Doppler shift.

<sup>e</sup> ((1969DI1B):  $E_n = 8.6$  MeV) also reports observation of the  $6.44 \rightarrow 3.95$  and  $6.20 \rightarrow 2.31$  transitions.