Table 5-2 The CNO reactions

12.126

0.601

2.762

1.193

0.94

 $N^{15}(p,\gamma)O^{16}$

 $O^{16}(p,\gamma)F^{17}$

 $F^{17}(\beta^+\nu)O^{17}$

 $O^{17}(p,\alpha)N^{14}$

			dS		
·	Q value,	Average	S(E=0),	\overline{dE}	
Reaction	Mev	v loss, Mev	kev barns	barns	\boldsymbol{B}
${ m C}^{12}(p,\gamma){ m N}^{13}$	1.944		1.40	4.26×10^{-3}	136.93
$ m N^{13}(eta^+ u)C^{13}$	2.221	0.710			
$\mathrm{C}^{13}(p,\gamma)\mathrm{N}^{14}$	7.550		5.50	1.34×10^{-2}	137.20
$N^{14}(p,\gamma)O^{15}$	7.293		2.75		152.31
${ m O}^{15}(eta^+, u){ m N}^{15}$	2.761	1.00			
$\mathrm{N}^{15}(p,lpha)\mathrm{C}^{12}$	4.965		5.34×10^4	8.22×10^2	152.54

 2.74×10^{1}

 1.03×10^{1}

152.54

166.96

167.15

 1.86×10^{-1}

 -2.81×10^{-2}

Resonant reaction