

Table I

Calculated Neutrino Capture Rate in Chlorine-37 from Various Neutrino Sources in the Sun

Source	Flux at Earth, ^a ϕ ($\text{cm}^{-2} \text{sec}^{-1}$)	Cross Section, ^b σ (cm^2)	Capture Rate in Chlorine-37 ($\text{sec}^{-1} \cdot 10^{36}$)
$\text{H} + \text{H} \rightarrow \text{D} + \text{e}^+ + \nu$	6.35×10^{10}	0	0.0
$\text{H} + \text{H} \rightarrow \text{D} + \nu$	1.65×10^8	1.72×10^{-45}	0.28
Be^7 decay	2.9×10^9	2.9×10^{-46}	0.84
B^8 decay	3.6×10^6	1.35×10^{-42}	4.9
N^{13} decay	2.2×10^8	2.1×10^{-46}	0.05
O^{15} decay	2.2×10^8	7.8×10^{-46}	0.17

$$\sum \phi \sigma = 6.2 \times 10^{-36} \text{ sec}^{-1}$$

^a Fluxes from paper presented at this conference by J. N. Bahcall.

^b From Bahcall.⁵