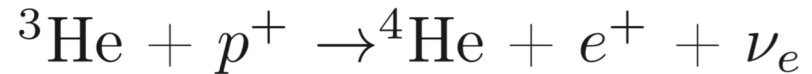


- From the pp chain:



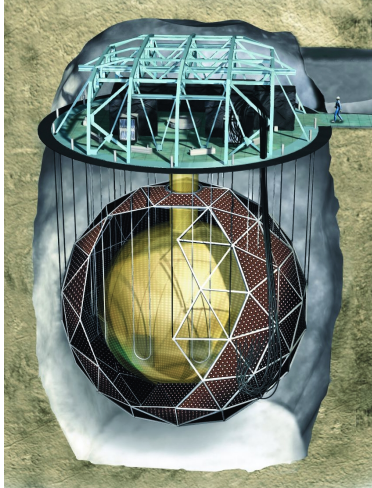
- No current observation:

$$\langle \Phi_{\text{hep}}^{\text{th}} \rangle = 7.93(1 \pm 0.155) \times 10^3 \text{ cm}^{-2} \text{ s}^{-1}$$

- Best current limit from 2006:

SNO Phase I Upper Limit (90% CL):

$$\langle \Phi_{\text{hep}}^{\text{full}} \rangle < 2.47 \times \Phi_{\text{hep}}^{\text{th}}$$



Detector:

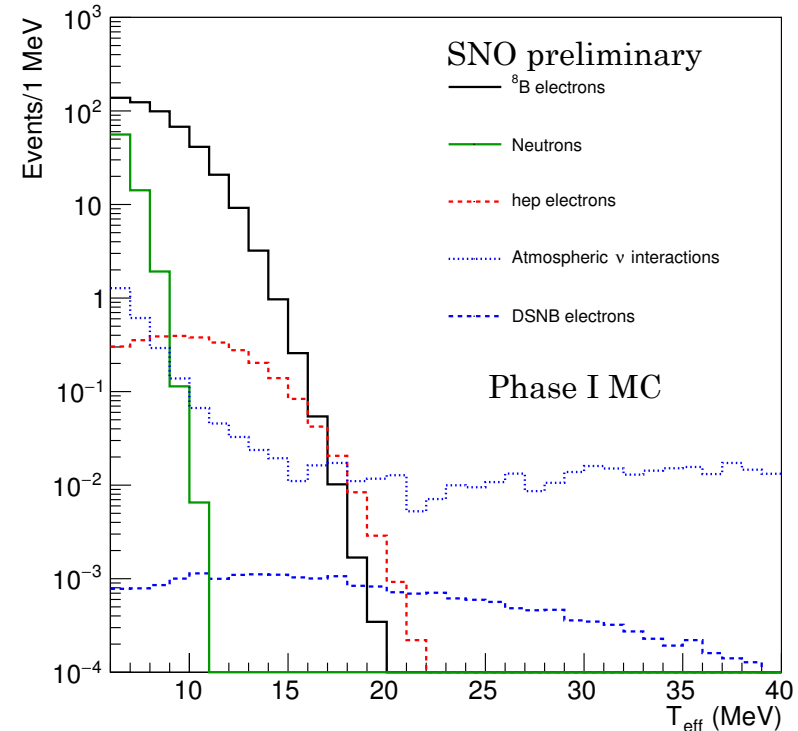
- 1 kton D₂O
- 1170.3 days (~4x 2006)

Analyses in development:

- Counting analysis
 - 90% CL Predicted Sensitivity

$$\langle \Phi_{\text{hep}}^{\text{full}} \rangle < 2.39 \times \Phi_{\text{hep}}^{\text{th}}$$

- Markov Chain Monte Carlo analysis



Major Improvements:

- Atmospheric ν modeled by GENIE MC
- Improved reconstruction