No axion signal detected.

Next step: solar atmosphere & constraints on parameters.

Key attributes of research:
- NuSTAR much more sensitive than predecessors in HXR range
- Varying solar atmospheric model from VAL-C (1981ApJS...45..635V)
  - Several orders of magnitude between lower and upper atmosphere

\[
P_{a \rightarrow \gamma}(z) = \frac{\kappa^2(z)}{4M^2} \left[ \left( \int_{h_0}^{\infty} \frac{B(z')}{\kappa(z')} \cos(\phi(z')) \, dz' \right)^2 + \left( \int_{h_0}^{\infty} \frac{B(z')}{\kappa(z')} \sin(\phi(z')) \, dz' \right)^2 \right]
\]
\[
\kappa(z) = \exp \left( - \int_0^z \frac{\Gamma(z')}{2} \, dz' \right), \quad \phi(z') = \int_0^{z'} \left[ \frac{m_e^2(z'') - m_a^2}{2\omega} \right] \, dz'', \quad m_\gamma(z) = \sqrt{4\pi \alpha n_e(z)} m_e
\]

derived from van Bibber et al. (1989PhRvD..39.2089V)