

The plot shows the distribution of the recoil electron's energy (E_{p}) versus its angle (θ_{p}) relative to the incoming χ . $m_{\chi} = m_{\chi} = m$

Red dots: True distribution

Blue dots: Distribution smeared using the formula:

 $\theta_{e} \rightarrow |\theta_{e}(1 + \delta)|$

where δ follows a normal distribution with dispersion 15%/ $\sqrt{(E_e/GeV)}$.

For SND, an outdated setup with $z \in (25, 27.5)$ m and $\Delta x * \Delta y = 0.4 * 0.4$ m² was used.