Analytic aperture model

$$A_\nu(E) = A_0\,\zeta\,\frac{\left(n_r^2-1\right)}{8n_r}\,\frac{L_\gamma}{L_\nu}\,f_0^3\,\Delta_0\,\left(\Psi_{\rm ds}+\Psi_{\rm dr}+\Psi_{\rm u}\right)$$

$$\Psi_{\rm ds} = f_0\Delta_0 \qquad \Psi_{\rm dr} = 0.96\,\sigma_0 \qquad \Psi_{\rm u} = 5.3\,\alpha_0$$

$$A_{\rm CR}(E) = A_0\,\zeta\,\frac{\sqrt{n_r^2-1}}{12}\,f_0^3\,\Delta_0\,\left(\Psi_{\rm ds}+\Psi_{\rm dr}\right)$$

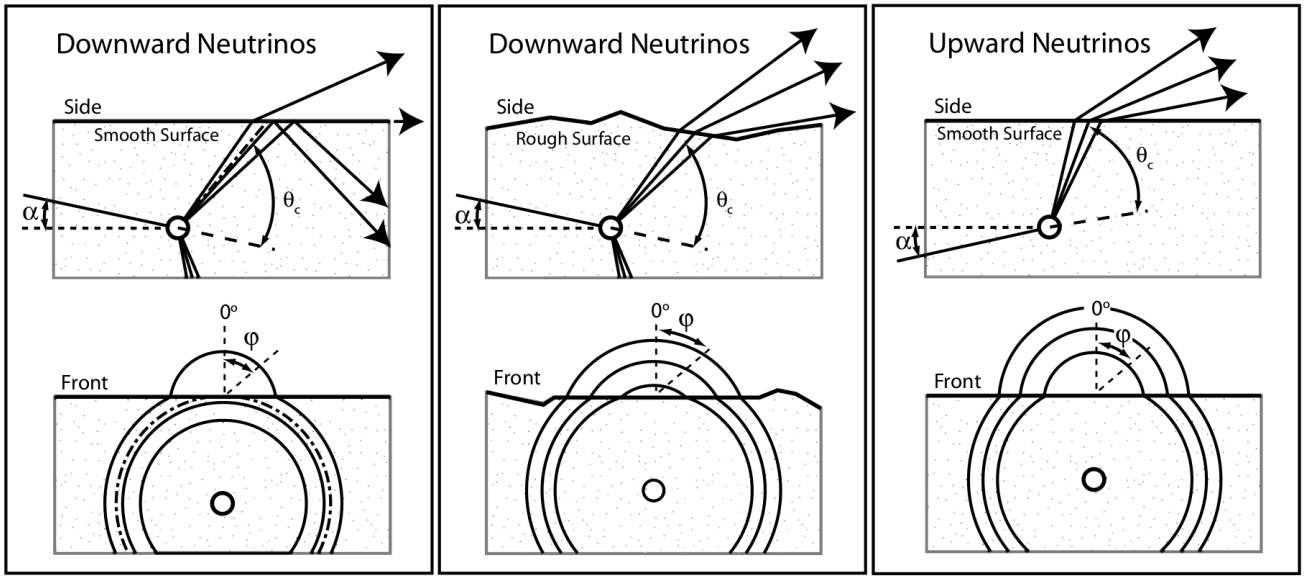
$$\Psi_{\rm ds} = \Delta_0^2 \qquad \Psi_{\rm dr} = \frac{3}{4}\,\frac{\sigma_0^2}{f_0^2}$$

Gayley et al., ApJ, 706, 1556 (2009)

Analytic aperture model

$$A_\nu(E) = A_0\,\zeta\,\frac{\left(n_r^2-1\right)}{8n_r}\,\frac{L_\gamma}{L_\nu}\,f_0^3\,\Delta_0\,\left(\Psi_{\rm ds}+\Psi_{\rm dr}+\Psi_{\rm u}\right)$$

$$\Psi_{\rm ds} = f_0\Delta_0 \qquad \Psi_{\rm dr} = 0.96\,\sigma_0 \qquad \Psi_{\rm u} = 5.3\,\alpha_0$$



Analytic aperture model

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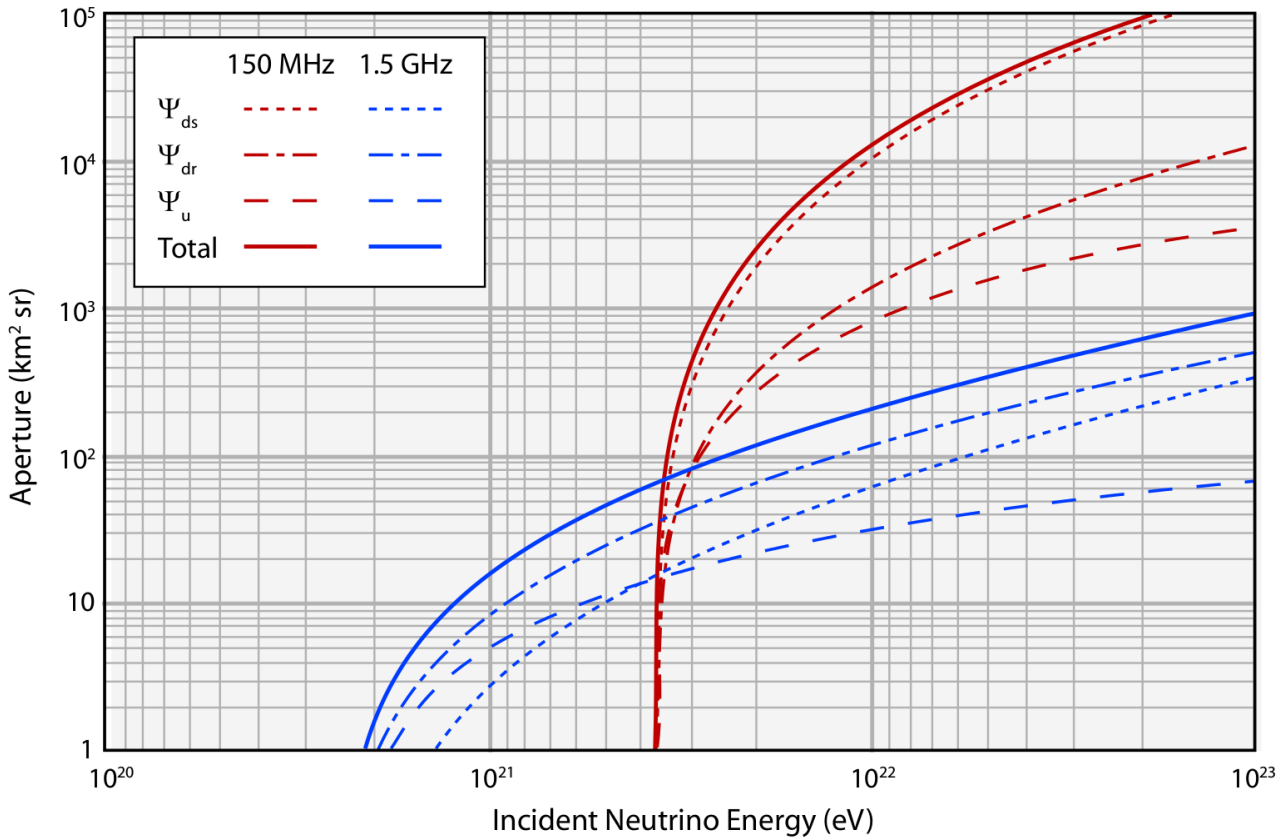

Comparison with Monte Carlo