

$$\times \left(\frac{D}{\text{kpc}} \right)^{-2} \underbrace{\left(\frac{\rho(r_{sp})}{10^2 \text{GeV cm}^{-3}} \right)^2 \left(\frac{r_{sp}}{\text{pc}} \right)^{\frac{14}{3}} \left(\frac{r_{cut}}{10^{-3} \text{pc}} \right)^{-\frac{5}{3}}}_{\text{mini-spike parameters}}$$