

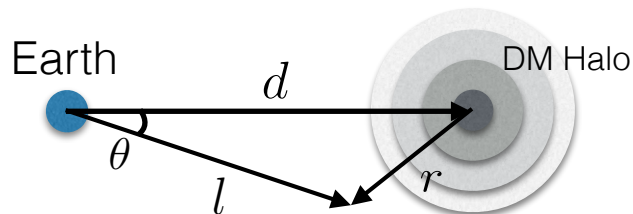
$$\rho_{zhao}(r) = \frac{\rho_s}{\left(\frac{r}{r_s}\right)^\gamma \left(1 + \left(\frac{r}{r_s}\right)^\alpha\right)^{\frac{\beta-\gamma}{\alpha}}}$$

$$\rho_{burkert}(r) = \frac{\rho_s r_s^3}{(r_s+r)(r_s^2+r^2)}$$

$$\rho_{einasto}(r) = \rho_s E^{-\frac{2}{\alpha}} \left( \left(\frac{r}{r_s}\right)^\alpha - 1 \right)$$

$$J_{decay}(\theta) = \int_0^{2\pi} \int_0^\infty \int \rho(r(l, \theta')) \text{Sin}(\theta') d\theta' dl d\varphi$$

$$J_{annihilate}(\theta) = \int_0^{2\pi} \int_0^\infty \int \rho(r(l, \theta'))^2 \text{Sin}(\theta') d\theta' dl d\varphi$$



$$r = \sqrt{l^2 + d^2 - 2ld \text{Cos}(\theta)}$$