

$$\beta(r) := \frac{r}{\sqrt{1+r^2}} \quad r = \text{radius} / \text{"schwarzschild radius"}$$

$r := 0.01, 0.02 \dots 10$

$$\beta(0.01) = 10 \times 10^{-3}$$

$$\beta(0.1) = 0.1$$

$$\beta(1) = 0.707$$

$$\beta(10) = 0.995$$

