$$A = 4\pi \sigma_x^* \sigma_y^*$$

Ruang radial Gaussian

$$r = \frac{\gamma m v}{Bq}$$

$$\gamma = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$

$$\frac{mv^2}{r} = qvB$$

$$r = \frac{mv}{qB}$$