Super symmetry

Spin - $\frac{1}{2}$ — ino

photon → photino

gluon → gluino

W → Wino

Z → Zino

> 100's GeV in mass

Spin 0 s-

quark → squark

lepton → slepton

Milky Way:

1 star / $pc^3$

$V = 200\ km/s$

$2 \cdot 10^5\ m/s$

$2\pi R = 2\pi \cdot 8\ kpc = 8 \cdot 3 \cdot 10^{19}$

$2\pi \cdot 2.4 \cdot 10^{20}\ m$

$\approx 1.5 \cdot 10^{21}\ m$

$7 \cdot 10^{15}\ s \approx 2 \cdot 10^{8}$