Distance to the Galactic Centre (kpc)

10^{-2} 10^{-1} 10^{0} 10^{1}

ρ_{DM} (GeV cm^{-3})

10^{2} 10^{1} 10^{0}

Sun

$^{3}\overline{\mathrm{He}}$, p

● = DM

$p + p \rightarrow {}^{3}\overline{\mathrm{He}} + X$

$^{3}\overline{\mathrm{He}} + p \rightarrow Y$

$p + {}^{4}\mathrm{He} \rightarrow {}^{3}\overline{\mathrm{He}} + X$

$\chi + \chi \rightarrow W^{+}W^{-} \rightarrow {}^{3}\overline{\mathrm{He}} + X$

...

AMS-02

GAPS

Voyager 1

0.100

Distance to the Galactic Centre (kpc)

100 10 1

Distance to the Sun (AU)

ALI-PUB-532052