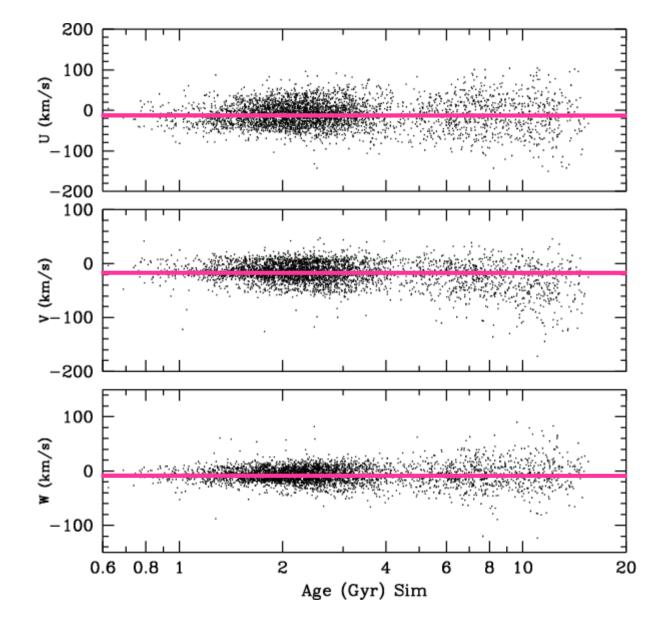


The quantity measured and plotted along Y-axis is Δw , which is the observed velocity of each of those stars with respect to the Sun in the direction perpendicular to the disc of the Galaxy (z-direction)

Dispersion of velocities with respect to LSR



U, V and W velocities vs. age for the more than 4000 stars from the Geneva-Copenhagen Survey.

For young stars dispersion is small. For older stars dispersion is larger. (Consistent with the old thick disk and young thin disk).

Oldest stars have highest peculiar velocities.

Holmberg et al. 2007, A&A