Scatter Showing the Non-Normalised PDF of the Stars Velocity 1e-36 3.5 **Probabilities** 3.0 2.5 (Arb) 2.0 -1.0 0.5 0.0 -0.8-0.6-0.40.0 0.2 0.4 +9.7e3  $Velocity(ms^{-1})$