52cmc6402 10^{4} Gaia + HST 0.200 Total PM velocity dispersion [mass yr^-1] 10³ 0.175 Number Density [pc^-2] 0.125 10^{1} 0.100 10° 0.075 0.050 10-2 0.025 10-3 0.000 Distance from centre [pc] Distance from centre [pc] Gaia MST LOS Data Tangential PM velocity dispersion [mass yr^-1] 0.200 0.175 LOS velocity dispersion [kms^-1] 0.150 0.125 0.100 0.075 0.050 0.025 Distance from centre [pc] Distance from centre [pc] 1.2 Gaia HST 0.200 Radial PM velocity dispersion [mass yr^-1] 1.1 0.175 1.0 0.150 PM anisotropy ratio 0.9 0.8 0.100 0.7 0.075 0.6 0.050 0.5 0.025 0.4 10-2 0.000 10-1 10° 10¹ 10-2 10-1 10⁰ 10¹ Distance from centre [pc] Distance from centre [pc]