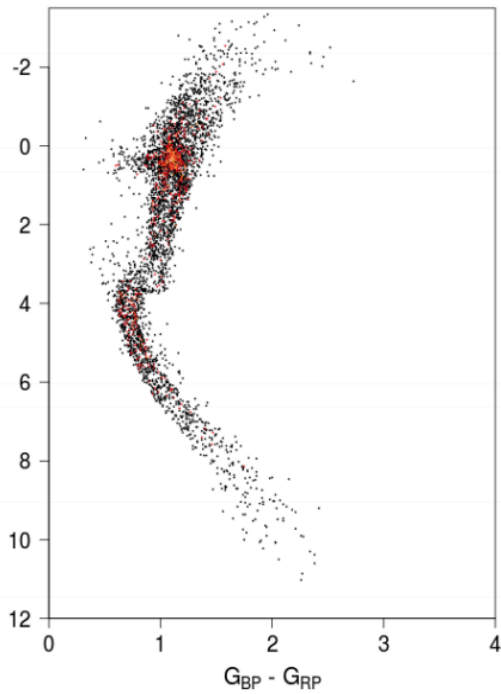


High Velocity Stars

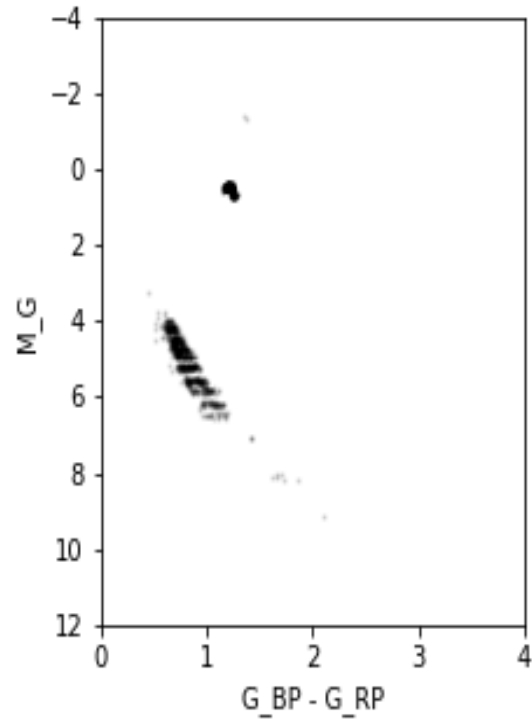
Total Velocity > 200 km/s

Figure 20, Panel



Stars Expected: 4461

Replication Attempt



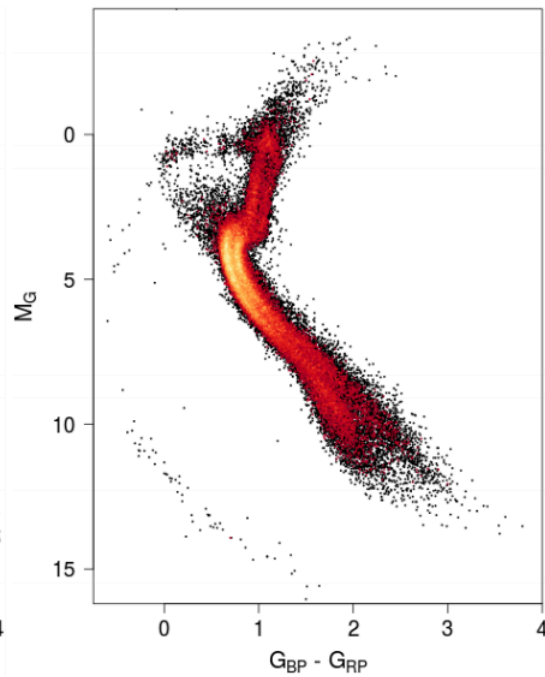
Stars Received: 1187

Interpretation of filters for Figure 20, panel C

AND sqrt(power(radial_velocity,2) + power((4.74/parallax * sqrt(power(pmra,2)
+ power(pmdec,2))),2)) > 200
AND e_bp_min_rp_val < 0.015

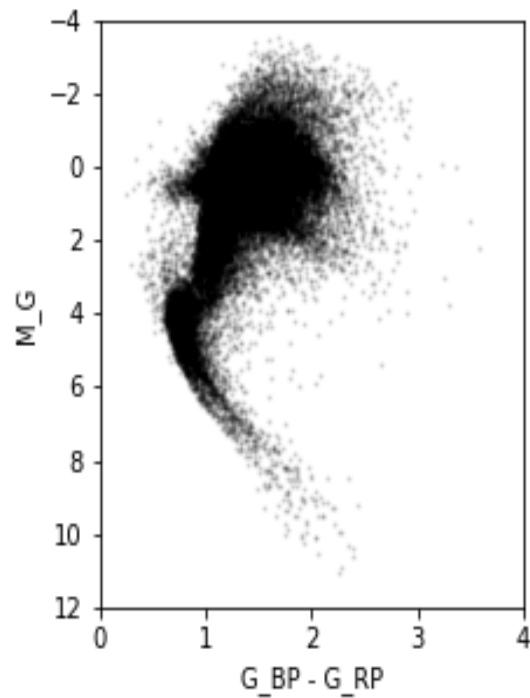
Tangential Velocity > 200 km/s

Figure 21, Panel C



Stars Expected: 64,727

Replication Attempt



Stars Received: 42,162

Interpretation of filters for Figure 21, panel C

AND $4.74/\text{parallax} * \sqrt{\text{power}(\text{pmra},2) + \text{power}(\text{pmdec},2)} > 200$
AND $e_{bp_min_rp_val} < 0.015$