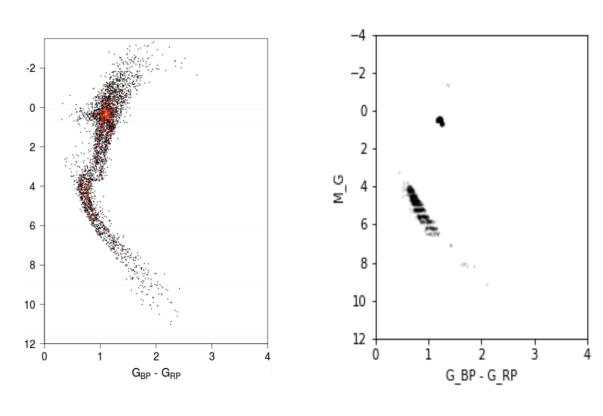
# **High Velocity Stars**

#### Total Velocity>200km/s

Figure 20, Panel

#### **Replication Attempt**



Stars Expected: 4461 Stars Received: 1187

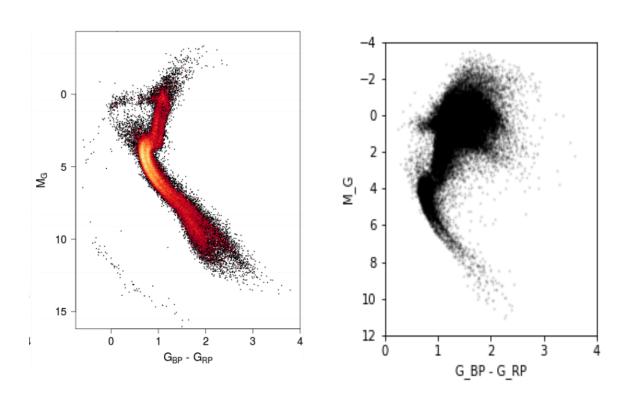
## Interpretation of filters for Figure 20, panel C

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>200km/s

Figure 21, Panel C

#### **Replication Attempt**



Stars Expected: 64,727

Stars Received: 42,182

## Interpretation of filters for Figure 21, panel C

AND 4.74/parallax \* sqrt(power(pmra,2) + power(pmdec,2)) > 200 AND e\_bp\_min\_rp\_val < 0.015