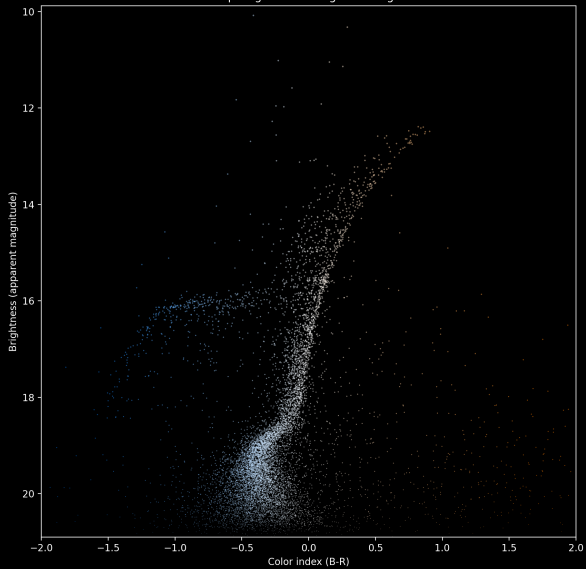


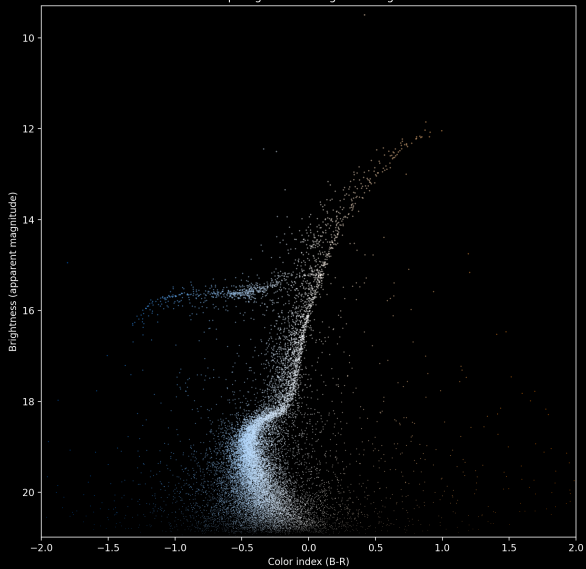
# HR-Diagrams of Globular Clusters

Using Gaia Data

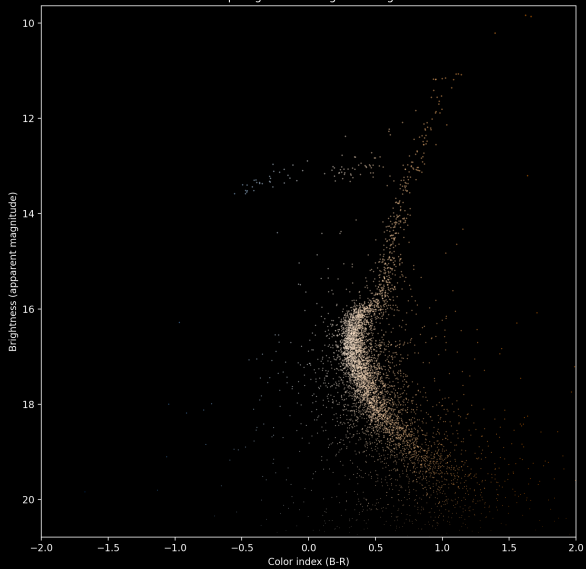
M2 Hertzprung-Russell Diagram using Gaia Data



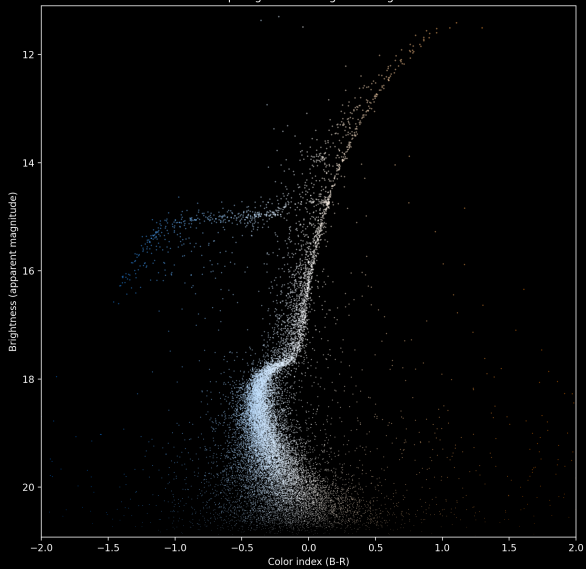
M3 Hertzprung-Russell Diagram using Gaia Data



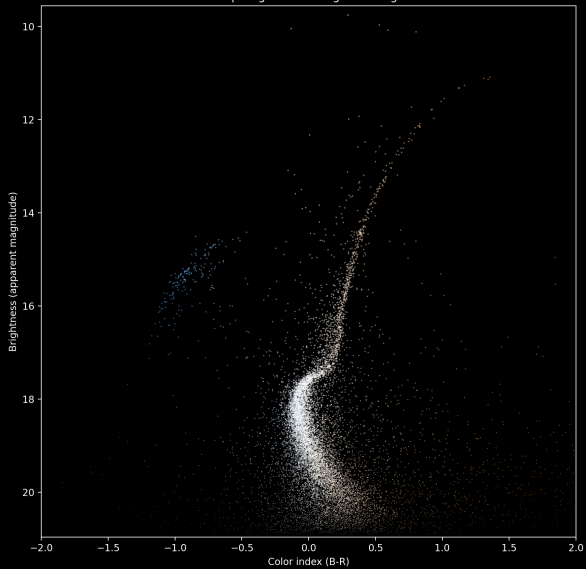
M4 Hertzprung-Russell Diagram using Gaia Data



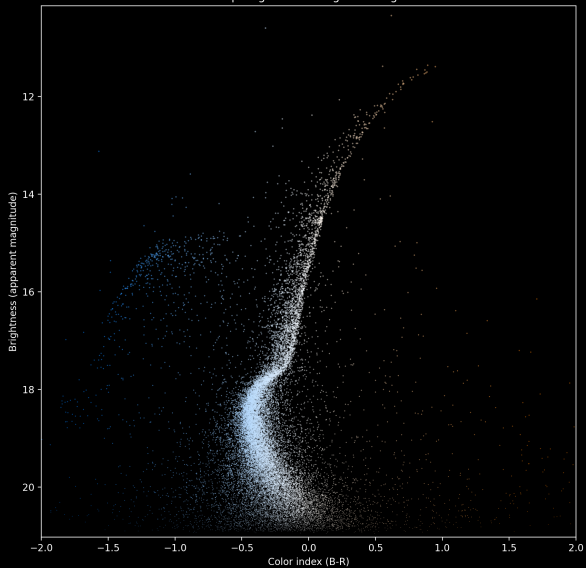
M5 Hertzprung-Russell Diagram using Gaia Data



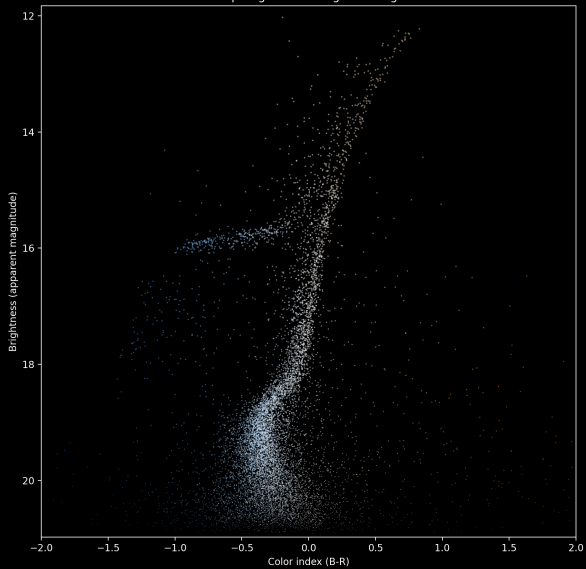
M12 Hertzprung-Russell Diagram using Gaia Data



M13 Hertzprung-Russell Diagram using Gaia Data

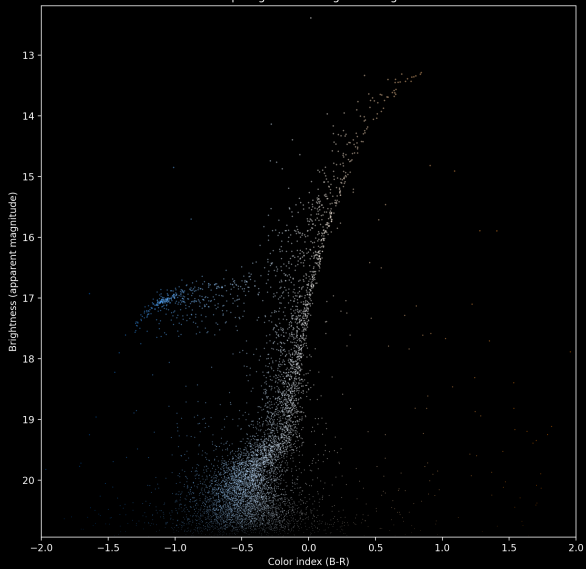


M15 Hertzprung-Russell Diagram using Gaia Data

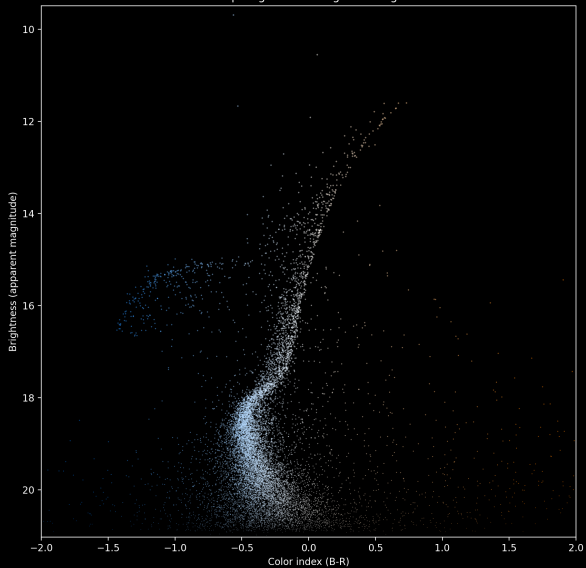




M53 Hertzsprung-Russell Diagram using Gaia Data



M92 Hertzsprung-Russell Diagram using Gaia Data

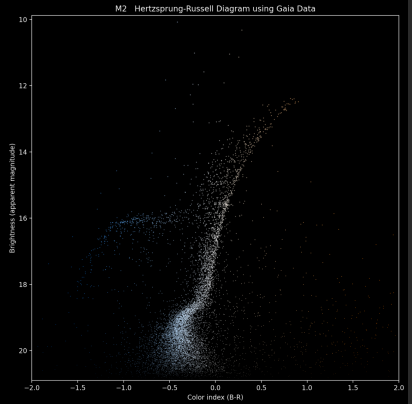


# HR-Diagrams of Globular Clusters

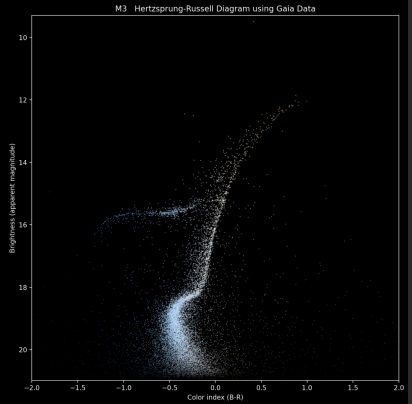
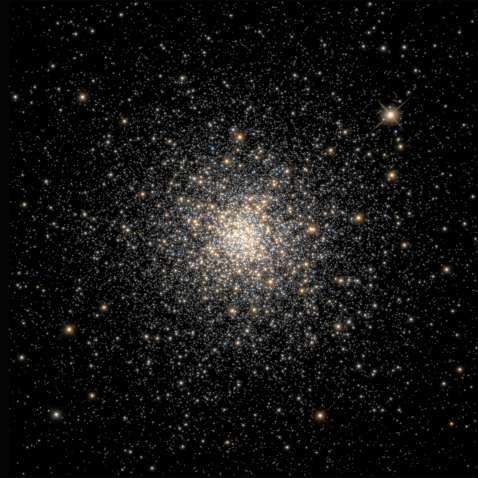
# HR-Diagrams of Globular Clusters

Using Gaia Data

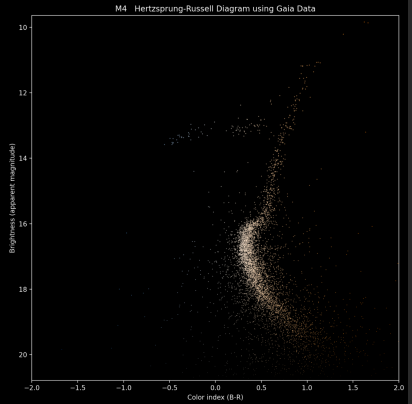
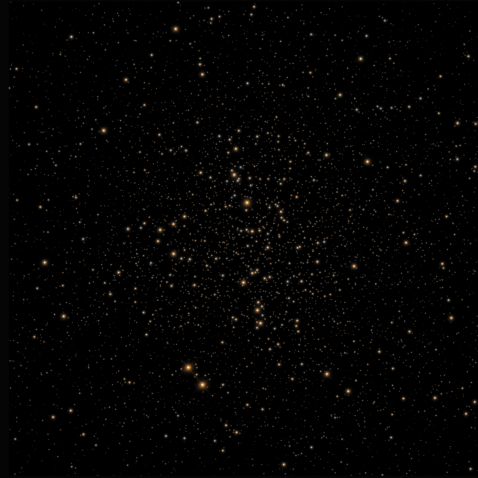
# M2



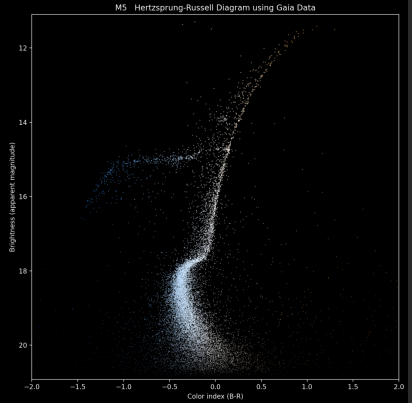
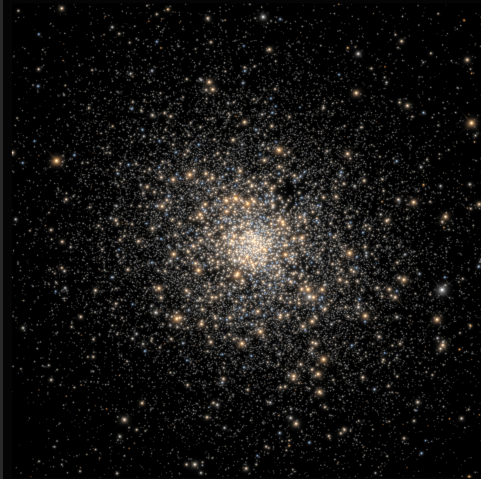
M3



# M4

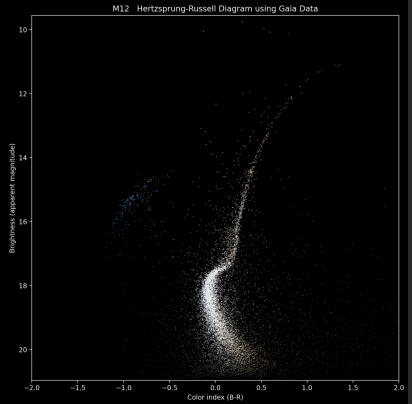


M5

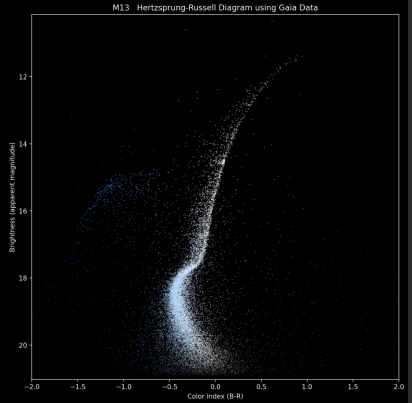




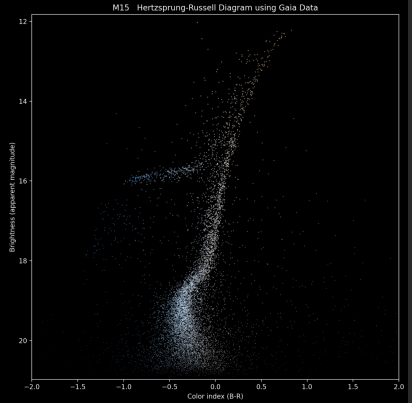
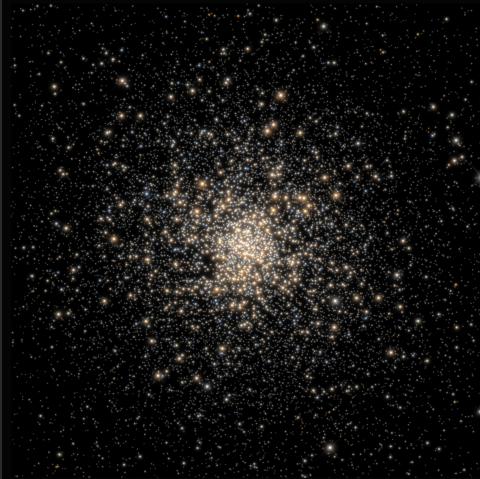
# M12



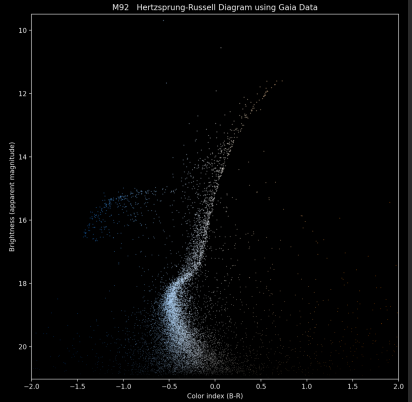
# M13



# M15



# M92

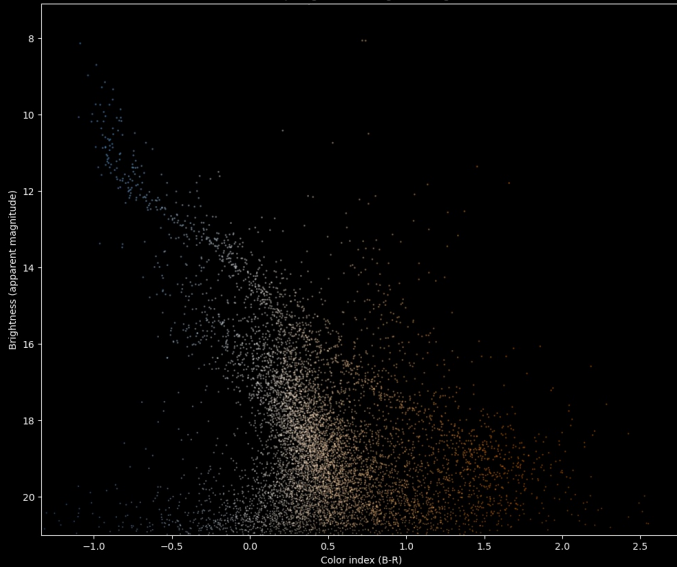


# HR-Diagrams of Open Clusters

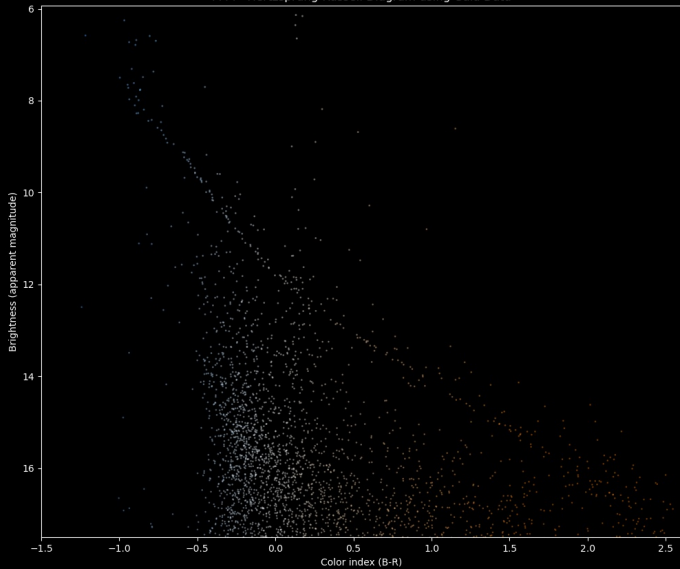
# HR-Diagrams of Open Clusters

Using Gaia Data

M35 Hertzsprung-Russell Diagram using Gaia Data

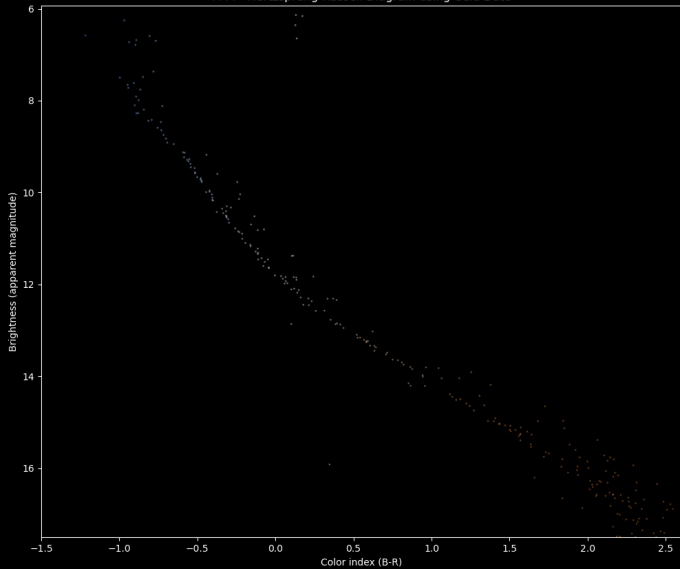


M44 Hertzprung-Russell Diagram using Gaia Data

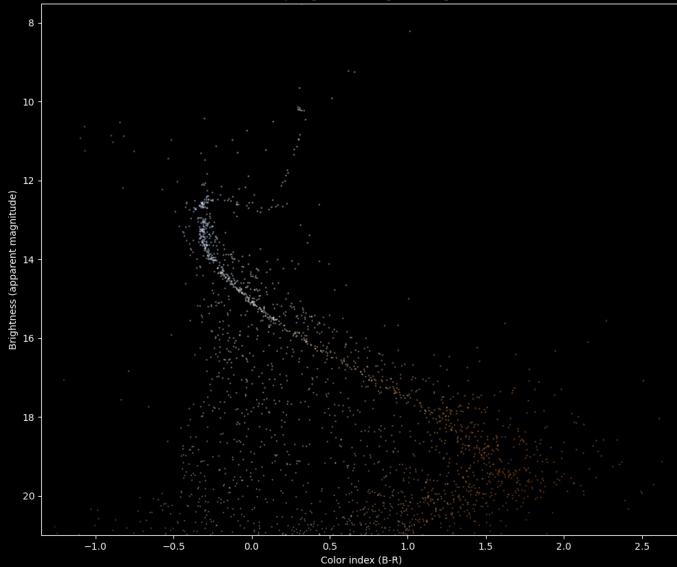




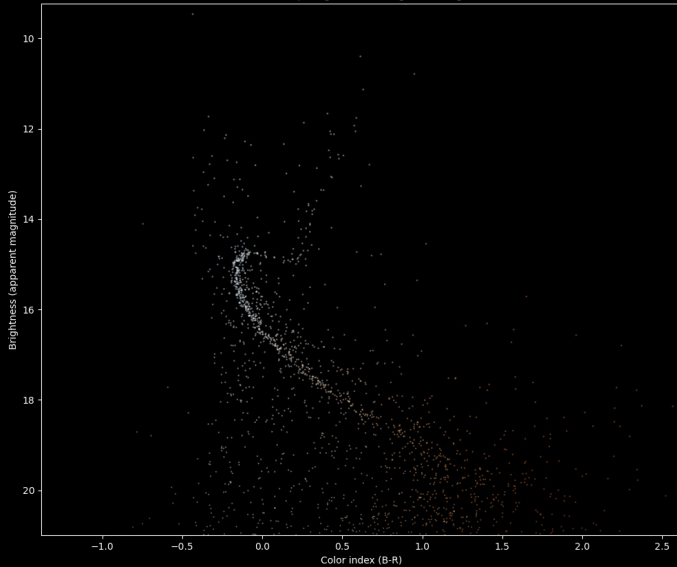
M44 Hertzprung-Russell Diagram using Gaia Data



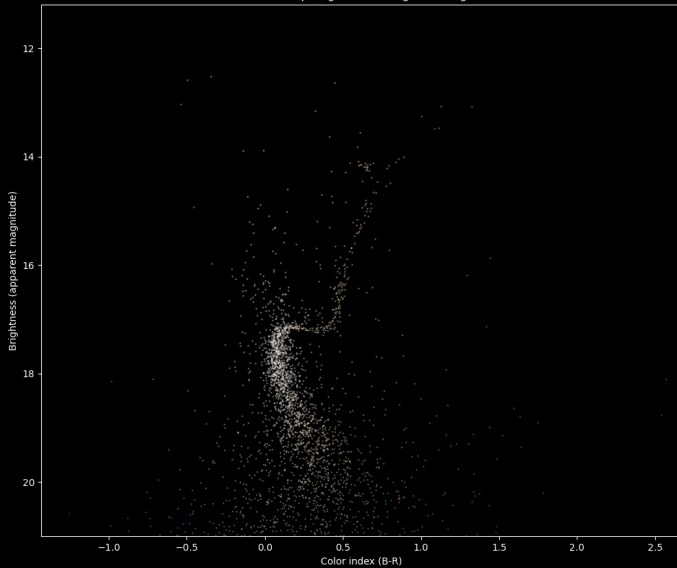
M67 Hertzsprung-Russell Diagram using Gaia Data



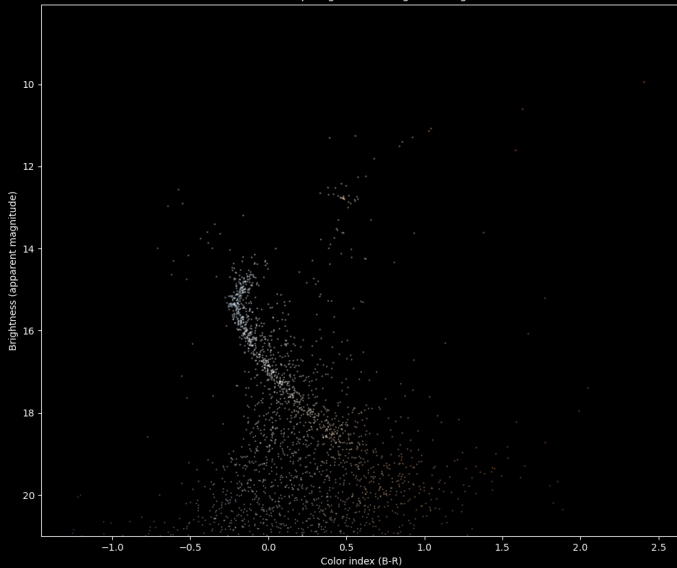
NGC 188 Hertzprung-Russell Diagram using Gaia Data



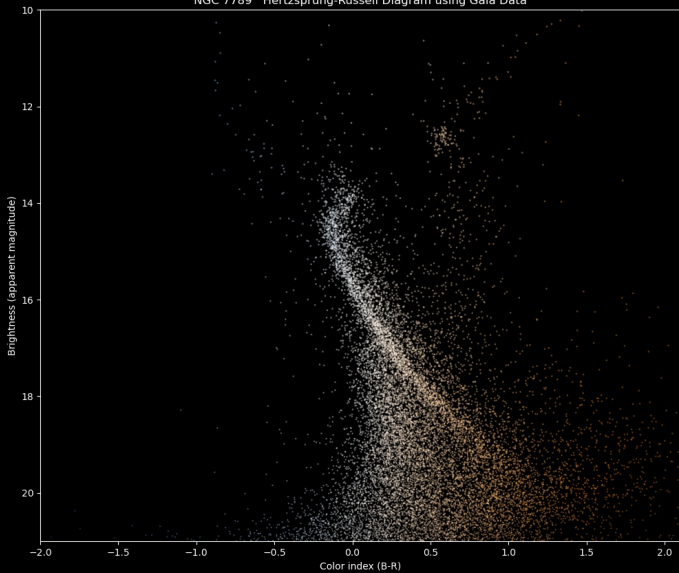
NGC 6791 Hertzsprung-Russell Diagram using Gaia Data



NGC 6819 Hertzsprung-Russell Diagram using Gaia Data



NGC 7789 Hertzsprung-Russell Diagram using Gaia Data



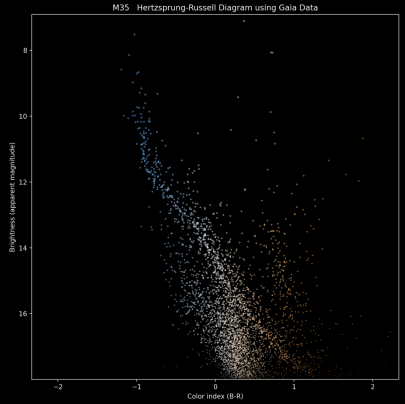
# HR-Diagrams of Open Clusters

# HR-Diagrams of Open Clusters

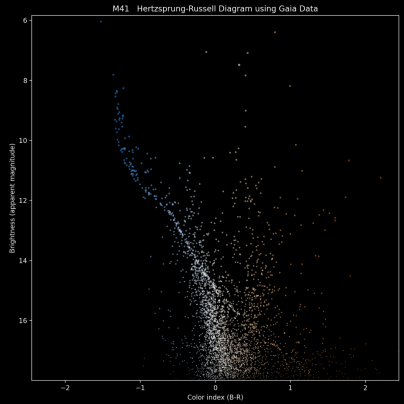
Using Gaia Data



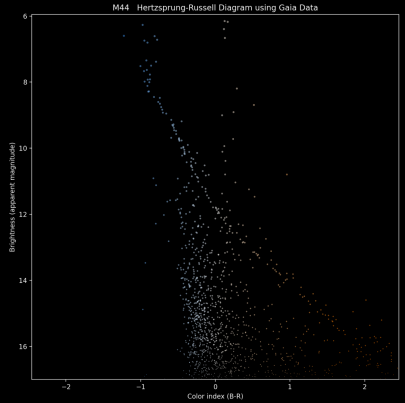
# M35



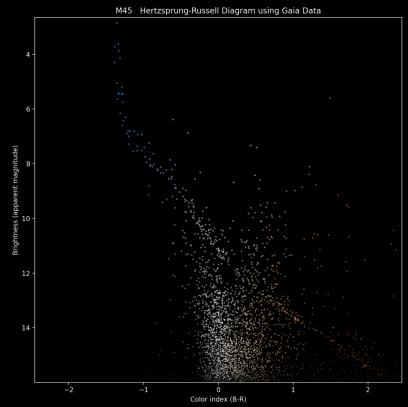
# M41



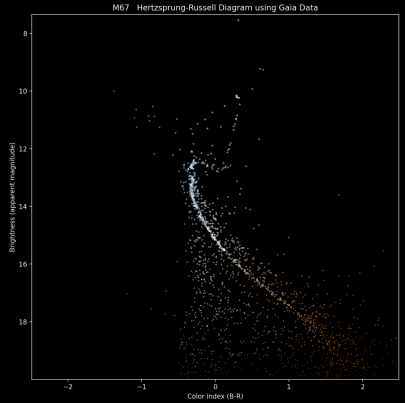
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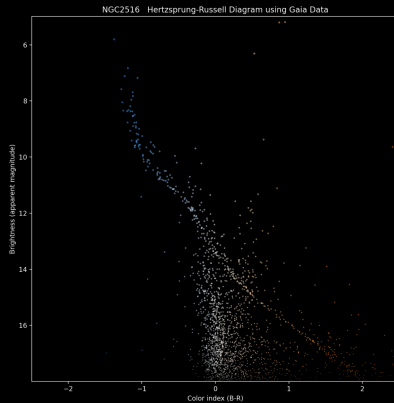
# M45



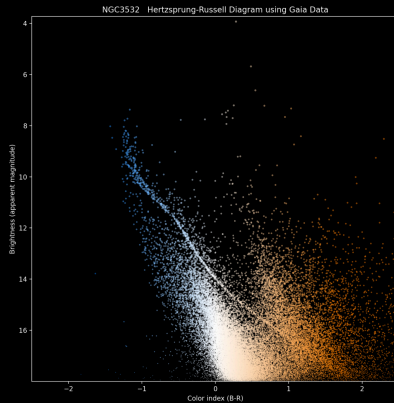
# M67



# NGC2516



# NGC3532

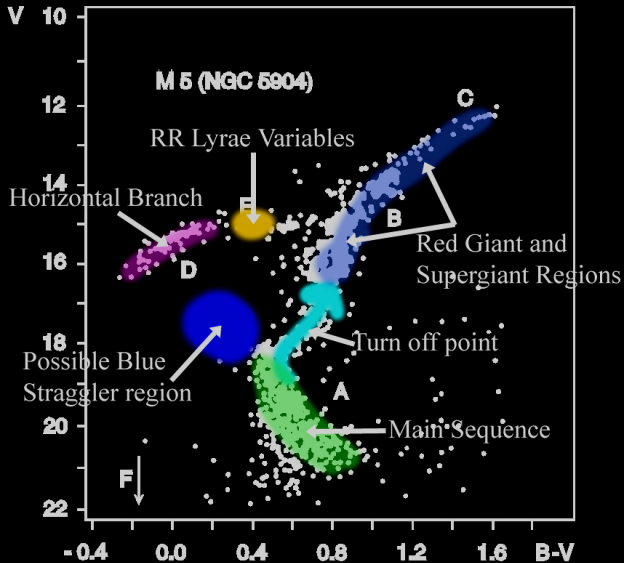


Any Questions?

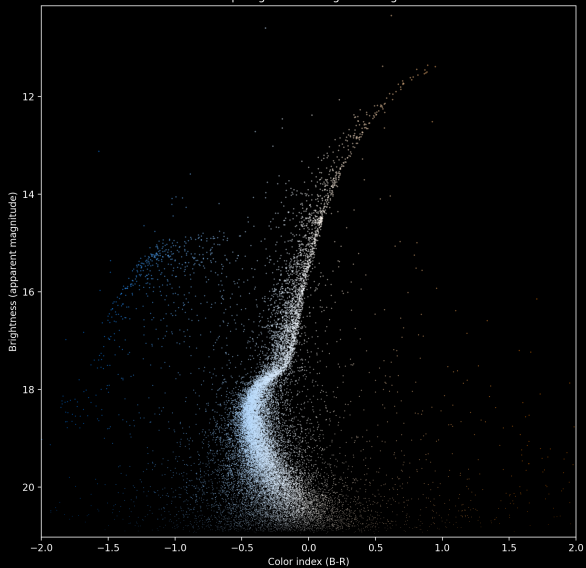


# Variable Stars

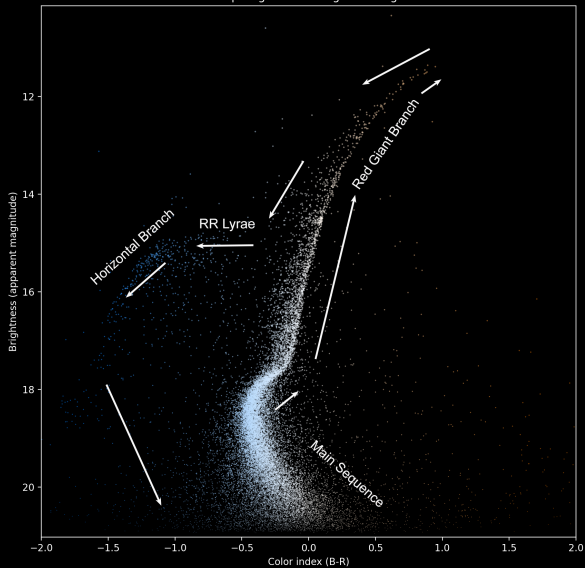
Adapted from SEDS (<http://www.seds.org>)



M13 Hertzprung-Russell Diagram using Gaia Data



M13 Hertzprung-Russell Diagram using Gaia Data

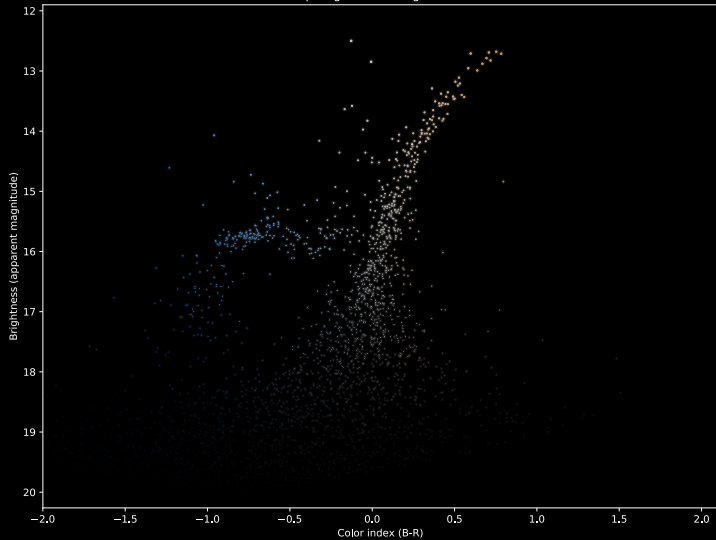


# Globular Cluster M15

[Click to see it](#)

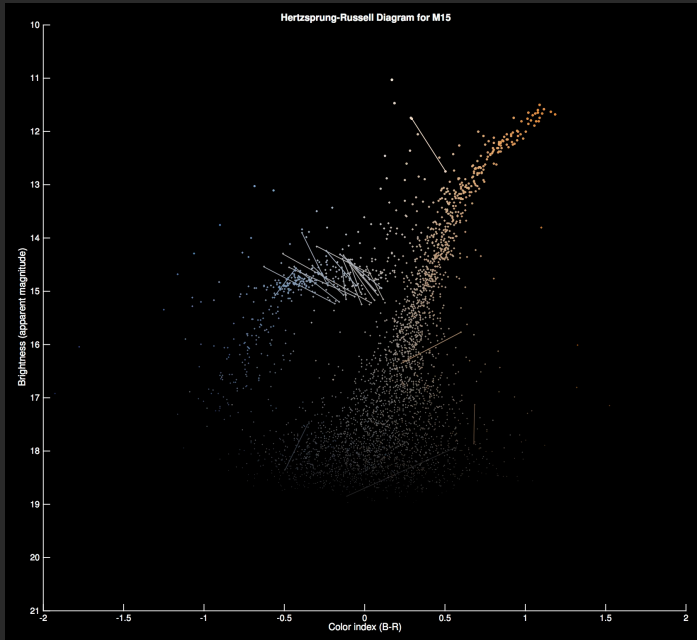


Hertzprung-Russell Diagram for M15

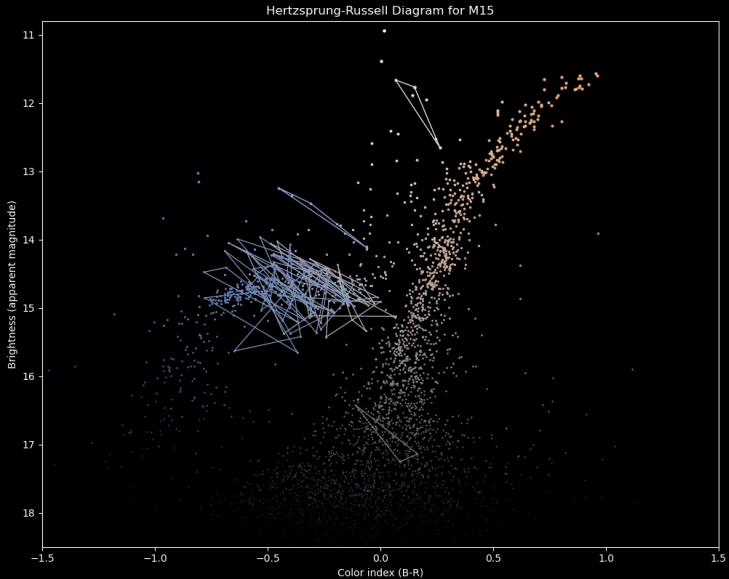


# HR-Diagram Showing RR-Lyrae Stars

[Click to see it](#)



# HR-Diagram Showing RR-Lyrae Stars



RR-Lyrae

distance: 258 parsecs



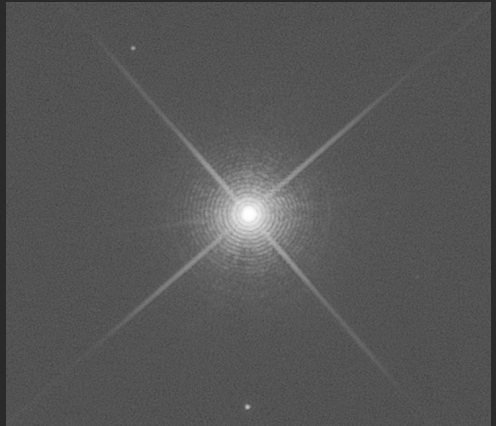
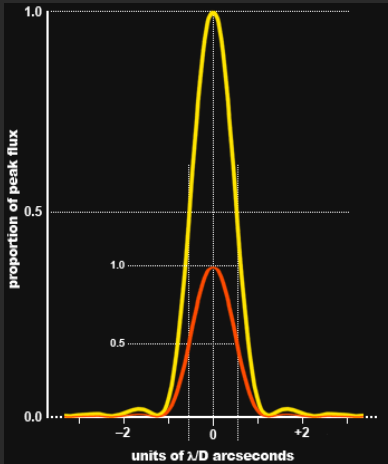


RR-Lyrae

distance: 258 parsecs



# Resolution



$$\text{Full-width half-max (FWHM)} = 1.22 \frac{\lambda}{D} \text{ radians}$$

$\lambda$  = wavelength,  $D$  = aperture diameter