

Synthetic Color Magnitude Diagrams of Galactic Globular Clusters

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Abstract

We have developed a new method to simulate the observed color magnitude diagrams for Galactic globular clusters. The model calculations include all evolutionary phases - from zero age main sequence to asymptotic giant branch. Using these models, we can simulate directly the observational errors and sampling effect, and also can examine the stellar evolution theory in more realistic way. Implications of these model calculations on the recent space observations of globular clusters and other systems will be discussed.