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Simulating Globular Cluster Dynamics with HRMOS

Monday, October 18, 2021 11:45 AM (25 minutes)

Globular clusters are excellent laboratories to study star formation and the early evolution of galaxies since they contain large samples of equidistant stars with similar ages and chemical abundance patterns. In addition, their high stellar densities make them unique environments for the creation of exotic stars like low-mass X-ray binaries, millisecond pulsars and merging black hole binaries. A full understanding of globular cluster dynamics requires combining the best available photometric information with kinematic data (proper motions, radial velocities) and theoretical models.In my talk I will give examples of what has been learned in recent years about the formation and evolution of globular clusters and discuss how future instruments like HRMOS can enhance our understanding.

Type

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