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Star Clusters in the Disk of Andromeda

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Star clusters play a pivotal role in understanding galaxy formation processes and evolution. However, investigations of star clusters within the disk of our Galaxy are limited due to interstellar extinction. Therefore, to understand evolution of star cluster systems in galaxy disks observations of nearby galaxies are needed. The best object for this purpose is the Andromeda (M31) galaxy, where ample of discovered star clusters enables us to study their impact on the evolution of stellar populations from the centre to the galaxy disk outskirts.

In this presentation, we aim to explore the connections between star clusters and the star formation history of the M31 galaxy disk using the Panchromatic Hubble Andromeda Treasury (PHAT) survey data. Based on the determined individual cluster parameters –age, mass, extinction, and metallicity –we investigated radial and azimuthal distributions of star clusters, providing the clues to the recent evolution of the M31 disk.

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