TIME-SCALES, ANGULAR MOMENTUM AND MATTER CIRCULATION IN THE GALACTIC EVOLUTION

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Various time-scales related to the Galactic evolution have been classified and reexamined with respect to their self-consistency. They turned out to be roughly in agreement with the observed properties of our Galaxy in terms of the angular momentum and the matter circulation.

ON THE DISTRIBUTION OF STELLAR POPULATIONS IN THE GALAXY

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We have analyzed observational data on the space distribution of the different types of stellar populations. We also examined the galactic rotation curves and models of mass distribution for the Galaxy. The need for the new observational data, reinterpretation of the concepts of stellar populations and remodeling of the mass distribution of the Galaxy are suggested.

HEAVY ELEMENT ABUNDANCES OF THE GALACTIC CLUSTERS AND THEIR SPACE DISTRIBUTION

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Defining a metal parameter, $(SP)_c$ which is related to the morphological parameters of a C-M diagram, we have estimated metal 97 globular clusters in our Galaxy. A correlation between absolute magnitude of the horizontal branch and metal abundance is derived and this is used for the derivation of distances for globular clusters