

Constraints to axion physics from Globular Clusters: an update

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New evolutionary models of low-mass stars that include axion productions due to Primakoff, Bremsstrahlung and Compton scattering are presented. These set of models has been used to calculate isochrones, luminosity functions (LFs) and synthetic colour-magnitude (CM) diagrams to be compared with their observational counterparts, i.e. LFs and CM diagrams of Galactic Globular Clusters stars. Based on these comparisons, updated constraints to both the axion-photon and axion-electron couplings are provided.

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