

A compilation of stellar kinematic groups: stellar streams, moving groups, and associations.

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In this contribution we present a compilation of the different stellar kinematic groups analysed in the literature. We include the young and old classical moving groups and superclusters, the recently identified young nearby loose associations as well as other stellar streams identified in recent surveys that contains large number of dwarf and giant stars. In addition, we summarize the high resolution spectroscopic surveys that our group have carried out during the last years aimed to identify cool stars member of these groups. Among these are the surveys of late-type stars possible members to young moving groups (Montes et al. 2001, López-Santiago, et al. 2005, 2006), FGK stars in the solar neighborhood (Martínez-Arnáiz et al. 2008), and RasTyc sample (cross-correlation of the ROSAT All-Sky Survey (RASS) with the TYCHO catalog, Guillout et al. 2008). In order to add new constraints to the membership of these stars to the different stellar kinematic groups we applied an age-oriented method using relative age indicators (Li abundances, chromospheric and coronoal emission and the kinematics) as well as color-magnitude diagrams and pre-main sequence isochrones.