Open clusters: a program to analyse the color–magnitude diagram with the help of stellar kinematic data

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Abstract. We constructed a program that allows one to use simultaneously and interactively photometric and astrometric stellar data (proper motion) to analyse color–color and color–magnitude diagrams. With this program, we are able to determine, based on photometric membership, the distance and age as well as the mean proper motion and radial velocity of several open clusters which had very uncertain parameters in previous analyses.

Keywords. methods: data analysis, Hertzsprung–Russell diagram, open clusters and associations: general

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The full poster (in pdf format) is available at
`http://www.astro.iag.usp.br/~iaus266/Posters/pDias.pdf`.