

KARMENES, the K2+CARMENES alliance.

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Abstract

The main goal of the CARMENES instrument is to perform high accuracy measurements of stellar radial velocities (1 m/s) with long term stability. It will be installed on Calar Alto in 2015 and will be equipped with two spectrographs covering from the visible to the near-infrared. The *Kepler* K2 mission uses *Kepler* spacecraft operating with only two reaction wheels to achieve high precision photometry of thousands of objects along the ecliptic. The CARMENES Consortium is proposing M dwarf targets to be observed in each K2 pointing, with the main aim of detecting transiting planets around late-type M dwarfs and pulsations.

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