
Stellar Magnetism in the Era of Space-Based Precision Photometry

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Abstract

The advent of precision space-based photometric missions such as MOST, CoRoT and Kepler has revealed stellar magnetic activity in unprecedented detail. These observations enable new investigations into the fundamental nature of stellar magnetism by furthering our understanding of the stellar rotation and differential rotation that generate the field, and the photometric variability caused by the surface manifestations of the field. In the case of stars with planetary candidates, these data also offer synergy between studies of stars and planets. In this talk, I review how the era of precision photometry has advanced our view of magnetism in solar-like stars, as well as our understanding of exoplanetary systems.

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