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TESS Asteroseismic Predictions for Red Giants using Kepler data

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ABSTRACT
This paper presents predictions of Red Giant mode detectability with TESS. Lightcurves for *Kepler* stars with fitted radial and quadrapole mode frequencies were used to generate equivalent TESS lightcurves. The lightcurves were cut down, *Kepler* white noise was removed, the bandpass was adjusted, and TESS white noise was added. A detection test was run on these lightcurves using different χ^2 2 DOF noise levels. Using this, a polynomial based on asteroseismic parameters was found to estimate Red Giant mode detectability with TESS.

Key words:

1 INTRODUCTION

This paper has been typeset from a TEX/LATEX file prepared by the author.

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