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Title: Contamination in the Kepler Field. Identification False Positive KOIs Via Ephemeris Matching  
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Abstract: The Kepler mission has to-date found almost 6,000 planetary transit-like signatures utilizing three years of data of over 170,000 stars at extreme photometric precision. Due to its design, contamination from eclipsing binaries, variable stars, and other transiting planets result in a significant number of these signatures being false positives. In order to detect as many of these false positives as possible, and better characterize the extent of contamination in the Kepler field, we perform ephemeris matching among all transiting planet, eclipsing binary, and variable star sources. We find that 11.5% of all known KOIs are false positives as a result of contamination, and estimate that this rate is about two times higher when accounting for observational biases. We present details of the various methods of contamination, and how to best evaluate these mechanisms when validating a given planetary candidate.