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SEARCH FOR TERRESTRIAL EXO-PLANETS AROUND NEARBY BRIGHT SUN-LIKE STARS

Abstract

Thanks to rapid progress of the transit and RV techniques and more and more missions like Kepler in the past years, we realize that planets around the host stellar are common and popular in our universe. Among the huge discovery results, mainly are giant gas planets, short-periods, a few are earth-size like. A terrestrial earth twin which orbit in habitable zone is always the final destination of exoplanet hunters. We developed the precision astrometry technique at micro-arc second level in order to detect the nearby terrestrial exoplanets around nearby bright (Mag \leq 9) sun-like stars (F, G, K type). The key technique and some relevant requirements are introduced and discussed.