

## A Search for Planetary Transits of the Star HD 187123 by Spot Filter CCD Differential Photometry



A Search for Planetary Transits of  
the Star HD 187123 by Spot Filter  
CCD Differential Photometry

NASA Technical Reports Server  
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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. A novel method for performing high precision, time series CCD differential photometry of bright stars using a spot filter, is demonstrated. Results for several nights of observing of the 51 Pegasi b-type planet bearing star HD 187123 are presented. Photometric precision of 0. 0015 - 0. 0023 magnitudes is achieved. No transits are observed at the epochs predicted from the radial velocity observation. If the planet orbiting HD 187123 at 0. 0415 AU is an inflated Jupiter similar in radius to HD 209458b it would have been detected at the greater than 6(sigma), level if the orbital inclination is near 90 degrees and at the greater than 3(sigma), level if the orbital inclination is as small as 82. 7 degrees. This item ships from La Vergne, TN. Paperback.



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