TeV Gamma-ray Observations of the PSR B1259-63/SS2883 Binary System with the CANGAROO-II 10-m Telescope

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Abstract

The CANGAROO-II observations of PSR1259-63/SS2883 binary system in 2000 and 2001, 47 and 157 days after the recent periastron, respectively, are reported. It has been pointed out that the pulsar wind and the dense mass outflow of the Be star may emit high energy gamma-rays via IC process or pionic decay. No positive signals are detected at ~0.3 Crab level. Comparing the results with a simple model calculation, the massoutflow parameters of the Be star are constrained.

