TeV gamma-ray observation of the Supernova Remnant RCW86 with the CANGROO-II telescope



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Abstract: RCW86(G315.4-2.3) is a shell-like supernova remnant(SNR). Following the ASCA discovery of non-thermal X-ray emission from RCW86, we have observed it in 2001 and 2002 with the CANGAROO-II telescope directed at the point in the south-west shell which has the highest intensity of X-ray emission.



CANGAROO-II

KOALA-II

1. Introduction

RCW86(G315.4-2.3), type II and shell-like SNR, has a non-thermal X-ray emission stronger than that of SN1006. Assuming the X-ray emission, shown in the multi-wavelength spectrum in Figure 5, is due to synchrotron emission, RCW86 is a good candidate for the emission of TeV gamma-rays by inverse Compton (I.C.) scattering.

