Principal Component Analysis of the Cygnus Loop: Preliminary Results

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ABSTRACT

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Introduction

The Cygnus Loop is a middle-aged supernova nt located 540 pc. al.2005). Its age is estimated to be between 5000 and 10000 years and it is believed to have originated in a type II supernova explosion that occurred inside the cavity eated by the stellar wind of the progenitor star. In 2002, XMM-Newton observed it at 8 positions shown in Fig. 1. "Equivalent

ated with a method similar to that used by Hwang et al. (2005) are



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References:

Blair W. P., Sankrit R., Raymond J.C. - 2005, AJ, 129, 2268 Hwang U., Holt S.S., Petre R. - 2005, Ap.J. 537.L 119.L 122 Warren J. S., Hughes J. P., -2005, et al. Ap.J. 634: 376-389

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