

**NEW STUDIES ON HIGH ENERGY COSMIC RAY EXTENSIVE AIR
SHOWERS DETECTED AT SEA LEVEL WITH EMPHASIS ON THE
OBSERVATION OF CELESTIAL ULTRA HIGH ENERGY
GAMMA -RAY SOURCES**

Thesis submitted
for the degree of Doctor of Philosophy (Science)
of the University of North Bengal
by
Arunava Bhadra

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High Energy and Cosmic Ray Research Centre
University of North Bengal
Darjeeling 734 430
INDIA
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