

A site evaluation campaign for a ground based atmospheric Cherenkov telescope in Romania

Aurelian Andrei Radu · Tatiana Angelescu · Valentin Curtef · Florin Delia · Daniel Felea · Ioana Goia · Dumitru Hașegan · Bogdan Lucaschi · Ancuta Manea · Vlad Popa · Ioan Raliță · Radu Văcăreanu

Received: 9 November 2011 / Accepted: 7 March 2012 / Published online: 28 March 2012
© Springer Science+Business Media B.V. 2012

Abstract Around the world, several scientific projects share the interest of a global network of small Cherenkov telescopes for monitoring observations of the brightest blazars—the DWARF network. A small, ground based, imaging atmospheric Cherenkov telescope of last generation is intended to be installed and operated in Romania as a component of the DWARF network. To prepare the construction of the observatory, two support projects have been initiated. Within the framework of these projects, we have assessed a number of possible sites where to settle the observatory. In this paper we submit a brief report on the general characteristics of the best four sites selected after the local infrastructure, the nearby facilities and the social impact criteria have been applied.

Keywords Cherenkov telescopes · Site testing · Gamma-rays

A. A. Radu (✉) · D. Felea · D. Hașegan · V. Popa
Institute of Space Science (ISS), 409 Atomistilor St., Bucharest-Magurele, Romania
e-mail: aurelian.radu@spacescience.ro

T. Angelescu
Faculty of Physics, Bucharest University, P.O. Box MG-012, Bucharest-Magurele, Romania

V. Curtef
Universität Würzburg, 97074 Würzburg, Germany

F. Delia · R. Văcăreanu
Technical University of Civil Engineering Bucharest, 124 Lacul Tei Boulevard, Bucharest, Romania

I. Goia · B. Lucaschi · A. Manea · I. Raliță
National Meteorological Administration, 97 Șoseaua București-Ploiești, Bucharest, Romania