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Modern status of recording system elements of the INCA project

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Abstract content

Elaboration of a multipurpose astrophysical orbital observatory (MAOO) INCA is continued. The MAOO is designed on basis of ionization-neutron calorimetry for the direct study of spectra and composition of high-energy primary cosmic radiation in the range ˜1011 –1016 eV. Scientific goals of the project are discussed, namely, measurements of (a) the PCR charge composition and energy spectra of proton and nuclear components up to the first "knee" energies (10ˆ15 –10ˆ16 eV); (b) spectra of high-energy electrons and diffusive gamma-rays up to 10ˆ13 eV; (c) search for gamma-ray discrete sources and dark matter signatures up to TeV energies; (d) neutral radiation from solar flares; (e) study of interactions of high-energy cosmic-ray particles and search for exotic particles. The modern concept of different elements and potentialities of the MAOO are considered. In particular, an original wide-band system for amplitude registration channels and neutron-counter system are developed.

If this papers is presented for a collaboration, please specify the collaboration

INCA Collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 2 (OG part 1), pages 337-340

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