



Contribution ID : **438**

Type : **Poster**

Experiment SPHERE-2 status 2007

Friday, 6 July 2007 14:45 (0:00)

Abstract content

New SPHERE-2 detector basic parameters are described.

New calorimetric method is used to study the primary cosmic rays energy spectrum and chemical composition at energy region 10 PeV - 1 EeV. The method is practically independent of the particle interaction model. Results of CORSIKA simulation of detector are presented.

Lifted by tied balloon to the 1 km altitude detector will detect EAS Cherenkov light reflected from the snow frozen surface of Baikal lake. First measurements are planned to the beginning of 2008.

If this papers is presented for a collaboration, please specify the 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. 5 (HE part 2), pages 945-948

Primary author(s) : Dr. CHERNOV, Dmitry (Skobeltsyn Institute of Nuclear Physics of Moscow State University); Prof. ANTONOV, Rem (Skobeltsyn Institute of Nuclear Physics of Moscow State University)

Co-author(s) : Dr. BONVECH, Elena (Skobeltsyn Institute of Nuclear Physics of Moscow State University); Dr. PROSIN, Vasiliy (Skobeltsyn Institute of Nuclear Physics of Moscow State University); Dr. ANOHINA, Anna (Skobeltsyn Institute of Nuclear Physics of Moscow State University); Prof. GALKIN, Vladimir (Skobeltsyn Institute of Nuclear Physics of Moscow State University); Prof. PANASYUK, Mihail (Skobeltsyn Institute of Nuclear Physics of Moscow State University); Dr. PUSHKAREV, D.A. (P.N.Lebedev Physical Institute of Russian Academy of Sciences); Dr. SYSOEVA, Tamara (P.N.Lebedev Physical Institute of Russian Academy of Sciences); Dr. SHIHALIEV, F.O. (P.N.Lebedev Physical Institute of Russian Academy of Sciences); Prof. FINGER, M (Karlov University, Prague, Czech Republic); Dr. SONSKY, Milan (COMPAS Ltd); Dr. SHAULOV, Sergey (P.N.Lebedev Physical Institute of Russian Academy of Sciences); Mr. LUBNIN, Aleksandr A. (P.N.Lebedev Physical Institute of Russian Academy of Sciences)

Presenter(s) : Dr. CHERNOV, Dmitry (Skobeltsyn Institute of Nuclear Physics of Moscow State University)

Session Classification : Posters 2 + Coffee

Track Classification : HE.1.5