Contribution ID : **951** Type : **Oral**

THE OBSERVATION OF GAMMA-RAY EMISSION DURING JANUARY 20 2005 SOLAR FLARE

Abstract content

The solar flare of 20.01.2005 (class X7.1) was the biggest one in January 2005. It was started at 06:36 UT by GOES data, ended at 07:26 UT and the maximum of X-ray emission was at 07:01 UT. AVS-F apparatus (CORONAS-F) registered gamma-ray emission during rising phase of this flare in two energy bands: 0.1-20 MeV and 2-140 MeV. The highest gamma-ray energy was registered during this flare was 137±4 MeV. Some spectral peculiarity was observed in region of 19.5-21 MeV in 2-140 MeV energy band on 2.5 standard deviation level at 06:44:52-06:51:16 UT. The possibilities of this feature treatment as gamma-line 20.58 MeV from radiation neutron capture on 3He are discussed.

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

Summary

Reference

Primary author(s) : Mr. ARKHANGELSKY, andrey (moscow engineering physics institute (state university))

Co-author(s) : Ms. ARKHANGELSKAJA, Irene (moscow engineering physics institute (state university)); Dr. GLYANENKO, Aleksandr (moscow engineering physics institute (state university)); Dr. KOTOV, Yuri (moscow engineering physics institute (state university)); Dr. KUZNETSOV, Sergey (Skobeltsyn Institute of Nuclear Physics of Moscow State University); Dr. TROITSKAJA, Evgenia (Skobeltsyn Institute of Nuclear Physics of Moscow State University); MIROSHNICHENKO, Leonty

Presenter(s) : MIROSHNICHENKO, Leonty

Session Classification : SH 1.2, SH 1.3

Track Classification : SH.1.2