Contribution ID : **939** Type : **Poster**

THE SEPARATION OF THIN STRUCTURE WITH TIMESCALE 33-92 S ON SOLAR FLARES OBSERVED IN JANUARY 2005 TEMPORAL PROFILES IN ENERGY BANDS CORRESPONDING TO SPECTRAL LINES IN ENERGY BAND OF 0.1-20 MeV BY AVS-F APPARATUS DATA

Wednesday, 4 July 2007 14:45 (0:00)

Abstract content

The time profiles and energy spectra of 20.01.2005 (class X7.1), 17.01.2005 (class X3.8) and 15.01.2005 (class X2.6) solar flares from NOAA 00720 active region in energy band 0.1-20 MeV by AVS-F data are discussed. The energy spectra of 17.01.2005 and 20.01.2005 solar flares contain nuclear lines, positron line and neutrons capture line. Only positron line and neutron capture line in the spectrum of 15.01.2005 solar flare are detected. Temporal profiles of these flares in energy bands corresponding to observed spectral features are analysed. The thin structure with characteristic timescales 33-92 sec is extracted from flares temporal profiles in energy bands corresponding observed spectral features and confirmed by periodogramm analysis (confidence level is 99%).

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. 1 (SH), pages 15-18

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Session Classification : Posters 1 + Coffee

Track Classification : SH.1.2