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\* I S W I = International Space Weather Initiative \*  
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Attachment(s):

- (1) "Figures 1 and 2 for PR#42", 83 KB pdf, one page.
- (2) "Figure 1 for PR#44", 38 KB pdf, one page.

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: Re:  
: Two press releases from  
: YerPhI  
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Dear ISWI Participant:

I attach press releases #42 and #44 for your reference.  
The associated figures are attached.

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From: YerPhI Press releases <narine\_khachatryan@yerphi.am>  
Date: 09/28/2011 02:48PM  
Subject: PR#42: Participation of Armenian physicists in the  
. 32nd International Cosmic Ray Conference (ICRC2011)

The 32nd International Cosmic Ray Conference (ICRC2011) hosted and organized by the Institute of High Energy Physics, the Chinese Academy of Sciences was held in Beijing from August 11 to August 18, 2011. Following the tradition of past International Cosmic Ray Conferences, the ICRC2011

dealt with a broad range of topics, covering cosmic ray physics, gamma-ray astronomy, solar physics and high energy phenomena in terrestrial atmosphere. The key topics were:

- A. Solar and Heliospheric Phenomena
  - \* Sun and Solar Emissions
  - \* Acceleration and Transport Phenomena in the Heliosphere
  - \* Galactic and Anomalous Cosmic Rays in the Heliosphere
  - \* Cosmic Rays at Earth and in Planetary Environments
- B. Cosmic Ray Origin and Galactic Phenomena
  - \* Direct Measurements
  - \* X-ray and Gamma ray observations
- C. High Energy Phenomena
  - \* Extensive Air Showers and HE Cosmic Rays
  - \* Muons and Neutrinos
  - \* Interactions, Particle Physics Aspects, Cosmology
- \* Sun and Solar Emissions
- \* Acceleration and Transport Phenomena in the Heliosphere
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- \* Cosmic Rays at Earth and in Planetary Environments
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- \* Interactions, Particle Physics Aspects, Cosmology

The YerPhi delegation (Romen Martirosov, Bagrat Mailyan, Levon Vanyan) presented the following reports: Romen Martirosov : "Energy spectrum and mass composition of primary cosmic radiation in the region above the knee from the GAMMA experiment", Bagrat Mailyan presented two talks: "Thunderstorm Ground Enhancements (TGE-s) detected at Aragats and "The energy spectra of the thunderstorm correlated electron and gamma ray fluxes measured at Aragats". Levon Vanyan: "Simulations of the Relativistic Runaway Electron Avalanches (RREA) in the thunderclouds above the Aragats space Environmental center (ASEC)".

Figure 1. Discussion of new physics of thunderstorm activity. Vanyan Levon (left) and Alexander Lidvansky (right).

Figure 2. Poster Session: Partha Chowduri (left) and Bagrat Mailyan (right).

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From: YerPhi Press releases <narine\_khachatryan@yerphi.am>  
 Date: 09/28/2011 02:36PM  
 Subject: PR#44: Registration of solar flares in the  
 . CRD Aragats station on September 6- 8

On September 6-8 four flares occurred on the Sun, and the flares originated Coronal Mass Ejections (MEs) inducing geomagnetic storms on the arrival to the Earth.

The first flare was invoked. From 1283 solar active region solar flare was unleashed at on September 6, at 01:50 UT, the GOES 15 satellite registered M5.3 category flare, according to X-ray flares scale (X class flares are the strongest ones, M-class 10 times less intensive). The same day, at 22:20 UT, the same active region induced the second flare of X2.1 category. On September 7, at 22:38 UT, the third strong flare was registered, now the X1.8 category. And finally on September 8, at 15:46 UT, M6 category flare was noticed. All the flares produced CMEs. At arrival to the Earth on September 9, at 11:24 UT the Aragats neutron monitor (ArNM) registered sharp decrease of particle flux- this phenomenon is called Forbush decrease. It lasted till 13:14. Same day, at 16:00 UT strong geomagnetic storm occurred Kp-index increased till 7 (maximum value 9), which lasted till 18:20 UT. The disturbance of the magnetic field measured by planetary DST index decreased up to 75 nTl

Figure 1: The CME on September 08. 2011 at 15:46 UT

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UN/Nigeria Workshop on ISWI is just two weeks away !!!

Faithfully yours,  
 : George Maeda  
 : The Editor  
 : ISWI Newsletter



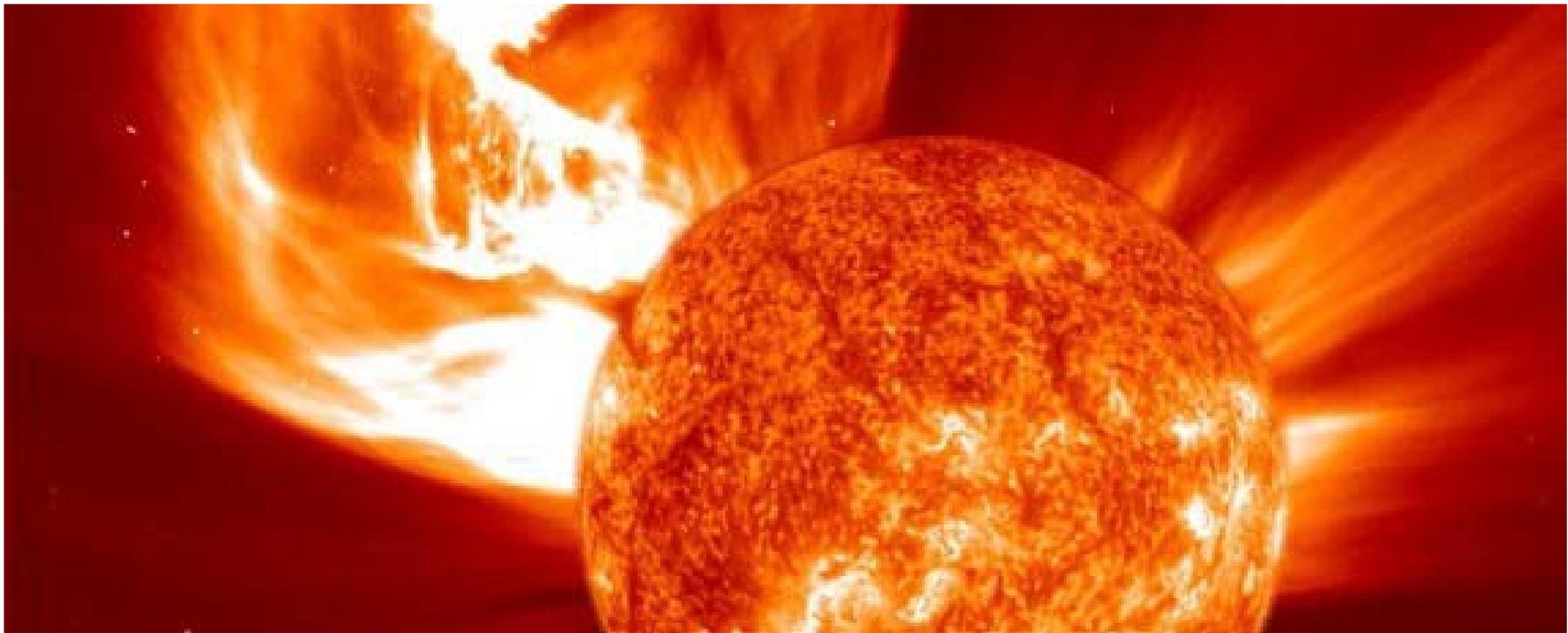
**Figure 1.** *Discussion of new physics of thunderstorm activity. Vanyan Levon (left) and Alexander Lidvansky(right).*



**Figure 2.** *Poster Session: Partha Chowduri (left) and Bagrat Mailyan (right).*

**Figures 1 and 2  
for PR#42**

# Figure 1 for PR#44



*Figure 1: The CME on September 08. 2011 at 15:46 UT*