



## **GENERAL INFORMATION:**

**TIME FRAME:** October 2-6 2017

**LOCATION:** Nor Amberd International Conference  
Centre of the Yerevan Physics Institute,

Byurakan, Aragatsotn District, Armenia.

## **SYMPOSIUM WEBSITE:**

<http://crd.yerphi.am/Conferences/tepa2017/home>

## ***PROGRAMME OF TEPA-2017***

**Sunday 1 October, Meeting of participants at the Zvartnots airport, transportation to the Nor Amberd, Registration at Nor Amberd International Conference Center**

***Monday 2 October***

**09:00 Breakfast**

**10:00 – 11:00 Registration,**

**11:00 – 11:15 Opening Ceremony**

***Session 1: Chairperson – S. Davidenko***

**11:15 – 12:00**

A. Chilingarian, *Yerevan Physics Institute, Armenia,*  
**Universality of High-Energy Physics in  
Atmosphere (HEPA)**

**12:00 – 12:45**

***Coffee break***

**12:45 – 13:30**

A. Kostinskiy, National Research University Higher School  
of Economics, Moscow, RF, **Generation of gamma  
radiation by a lightning discharge and a long spark**

**14:00 – 15:00 lunch**

**16:00 – 16:40**

*S. Soghomonyan, Yerevan Physics Institute, Armenia,*  
**Development of very high frequency broadband**

**interferometer for lightning location at Aragats  
research station**

**16:40 – 17:20**

*L.Vanyan, Yerevan Physics Institute, Armenia,*

**Explanation of the Telescope Array  
observations of particle bursts correlated with  
thunderstorm**

**17:20-18:00**

*M.Zazyan, Yerevan Physics Institute, Armenia,*

**Simulation of TGEs with CORSISA code**

*Coffee break*

**19:00 – 20:00**

*T. Karapetyan and L.Vanyan Yerevan Physics  
Institute, Armenia, **Presentation how to access the  
data bases of Cosmic ray Division***

**20:00**

***Special Event: Icebreaker, Nor Amberd  
Conference Center Restaurant***

***Tuesday, 3 October***

**09:00 Breakfast**

***Session 2: Chairperson – S. Sohgomyan***

**10:00 - 10:40**

*D. Iudin, Institute of Applied Physics of RAS, Nizhny Novgorod, RF, D.Iudin* , **Percolation effects and scalar-impurity advection in a turbulent flow: implications for lightning initiation problem**

***10:40 – 11:10***

*J. Blecki, Space Research Centre PAS, Poland,* **The cross correlation between the ground based and Swarm registration of the thunderstorms and TLEs effects**

**11:00 – 12:20**

***Coffee break***

**12:20 – 12:50**

M. Kaznacheeva for the Lomonosov-UHECR/TLE collaboration, *Skobeltsyn Institute of Nuclear Physics,*

**MSU, Orbital measurements of UV transient  
luminous radiation of thunderstorm origin by the  
TUS detector**

**13:00 – 14:00 Lunch**

**14:00 – 18:00**

**Excursion to Aragats Cosmic Ray Station and  
Amberd castle; Introduction to Aragats Space  
Environmental Center facilities**

**20:00 Supper**

***Wednesday, 4 October***

**09:00 *Breakfast***

***Session 3: Chairperson D.Iudin***

**10:00 – 10:30**

***T.Karapetyan, Yerevan Physics Institute, Armenia,***

**Registration of TGEs by the network of  
STAND1 detectors**

**10:30 – 11:00**

***Hripsime Mkrtchyan, Yerevan Physics Institute,  
Armenia, Enhanced particle fluxes during the decay  
stage of aragats thunderstorms***

**11:30 – 12:00**

*G.Hovsepyan, Yerevan Physics Institute, Armenia,*  
**Differential Energy Spectra of low and high  
energy TGEs**

**12:00 – 12:30**

*Coffee break*

**12:30 – 13:00**

*S.Mkoyan, Yerevan Physics Institute, Armenia,* **Data  
transfer and visualization network for CRD  
monitors**

**13:00 – 14:00 Lunch**

**14:00 – 18:00**

**Excursion to Yerevan and Echmiadzin**

**20:00 Conference Dinner**

***Thursday, October 5***

**09:00 *Breakfast***

**10:00 13:00 Discussions**

**Do lightnings born MeV particles?**

## Physics with Interferometer

Understanding Clouds Structure (*Suren Hovakimyan, Ministry of emergency situations*)

Excursion to Sevan lake (swimming, sightseeing)

20:00 Supper

*Friday, October 6*

09:00 *Breakfast*

11:00 – 12:00 Closing ceremony

13:00 - 13:30 Lunch

13:30 - 18:00 *Excursion to Garni (pagan temple) and Geghard (church from 4<sup>th</sup> century)*<sup>[L][SEP]</sup>

20:00 *Supper*

*Saturday, 7 October Transport participants to Zvartnots airport*

