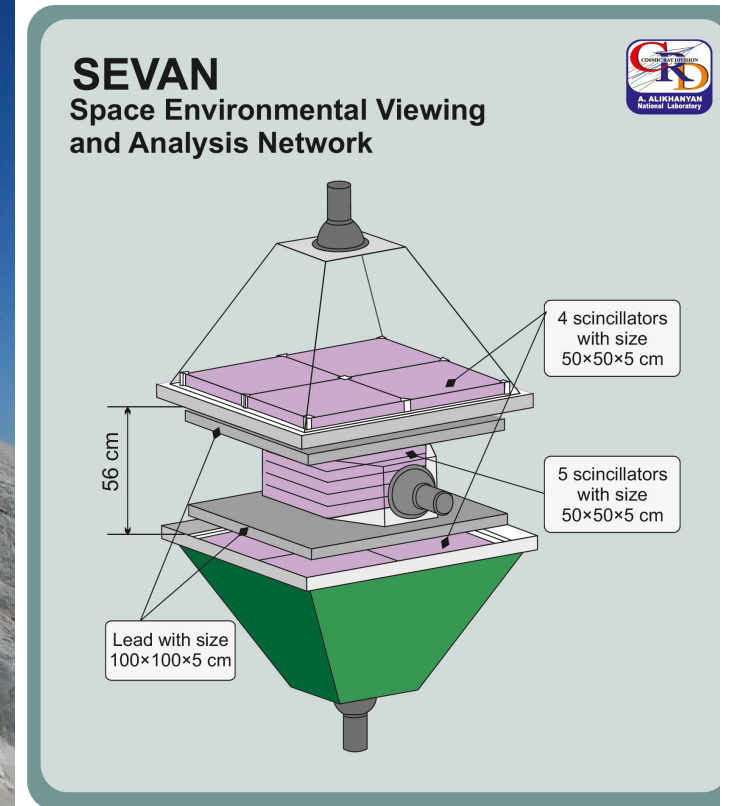


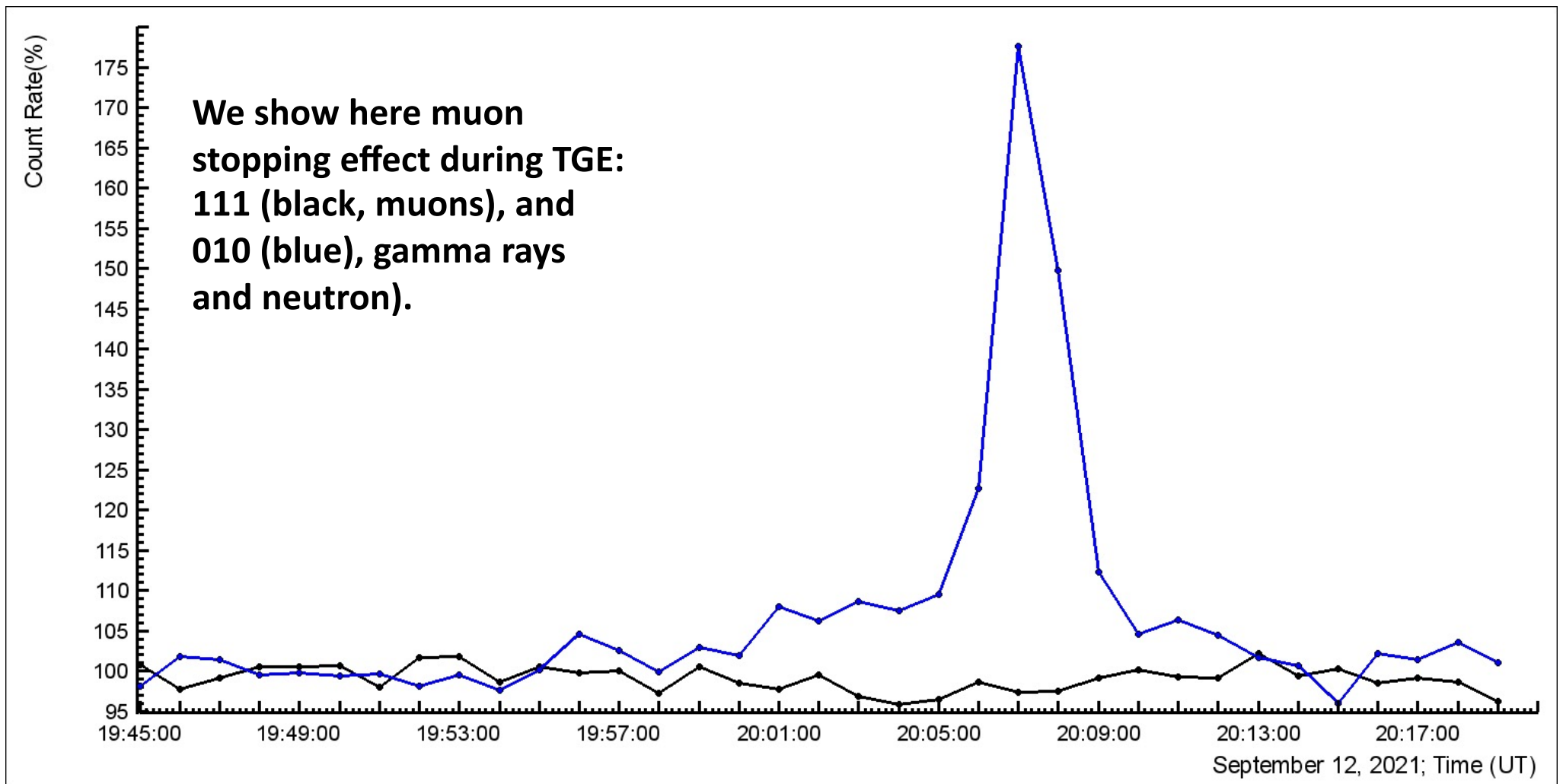
9 SEVAN units expands to 6 countries and we have additional requests to be considered in 2022. Network data (1 minute time series for 10 years) contains unique information used in current research in host countries



Next SEVAN unit will be installed near the top of the Zugspitze (2962 m), a site with a long history of atmospheric research.



The largest TGE event registered by SEVAN network in 2021 at Lomnicky Stit, Slovakia



Last papers from SEVAN network

- [1] Chum, J., Langer, R., Bařse, J., Kollárik, M., Strhářský, I., Diendorfer, G., et al. (2020). Significant Enhancements of Secondary Cosmic Rays and Electric Field at the High Mountain Peak of Lomnický Šťít in High Tatras during Thunderstorms. *Earth Planets Space* 72, 28. doi:10.1186/s40623-020-01155-9
- [2] Chilingarian, A., Karapetyan, T., Zazyan, M., Hovsepyan, G., Sargsyan, B., Nikolova, N., et al. (2021c). Maximum strength of the atmospheric electric field. *Physical Review D*, 103, 043021. <https://doi.org/10.1103/physrevd.103.043021>
- [3] Chilingarian, A., Hovsepyan, G., Karapetyan, G., and Zazyan, M. (2021). Stopping Muon Effect and Estimation of Intracloud Electric Field. *Astroparticle Phys.* 124, 102505. doi:10.1016/j.astropartphys.2020.102505
- [4] Chilingarian, A., Hovsepyan, G., & Zazyan, M. (2021). Muon tomography of charged structures in the atmospheric electric field. *Geophysical Research Letters*, 48, e2021GL094594. <https://doi.org/10.1029/2021GL094594>
- [5] Chum J, Kollárik M, Kolmasřová I, Langer R, Rusz J, Saxonbergová D and Strhářský I (2021) Influence of Solar Wind on Secondary Cosmic Rays and Atmospheric Electricity. *Front. Earth Sci.* 9:671801. doi: 10.3389/feart.2021.671801
- [6] A. Chilingarian, Progress of High-Energy Physics in Atmosphere (HEPA) achieved with the implementation of particle physics and nuclear spectroscopy methods, 2021, 37th International Cosmic Ray Conference, DOI: 10.22323/1.395.0366