



#43

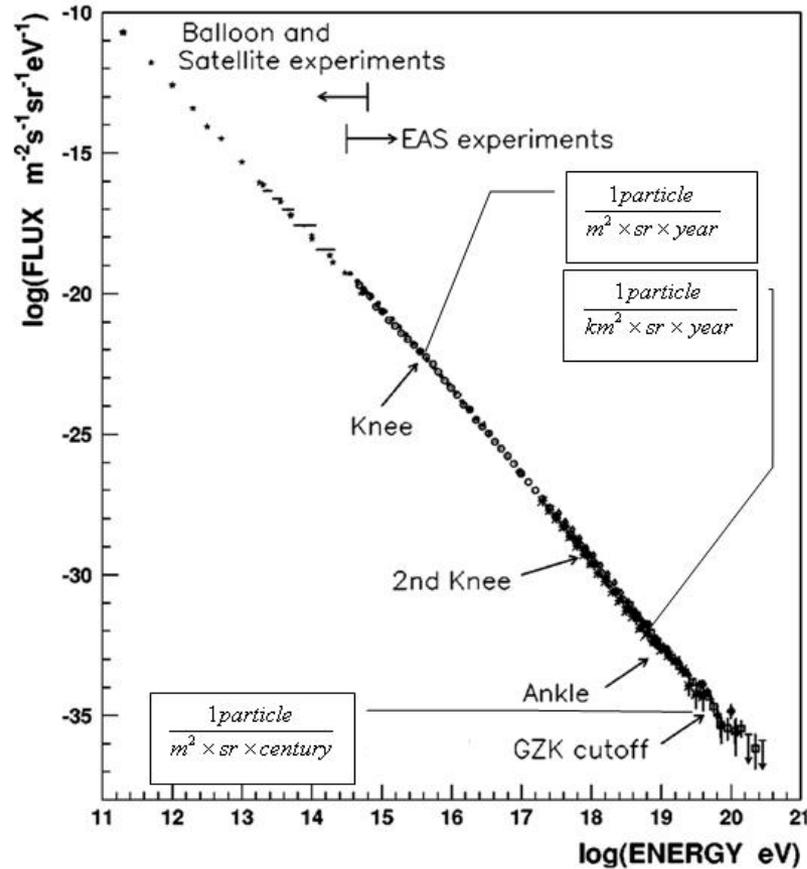
Optimization of the FPGA Trigger Based on the Artificial Neural Networks for the Detection of Neutrino-Induced Air Showers

Zbigniew Szadkowski, D. Głas, K. Pytel

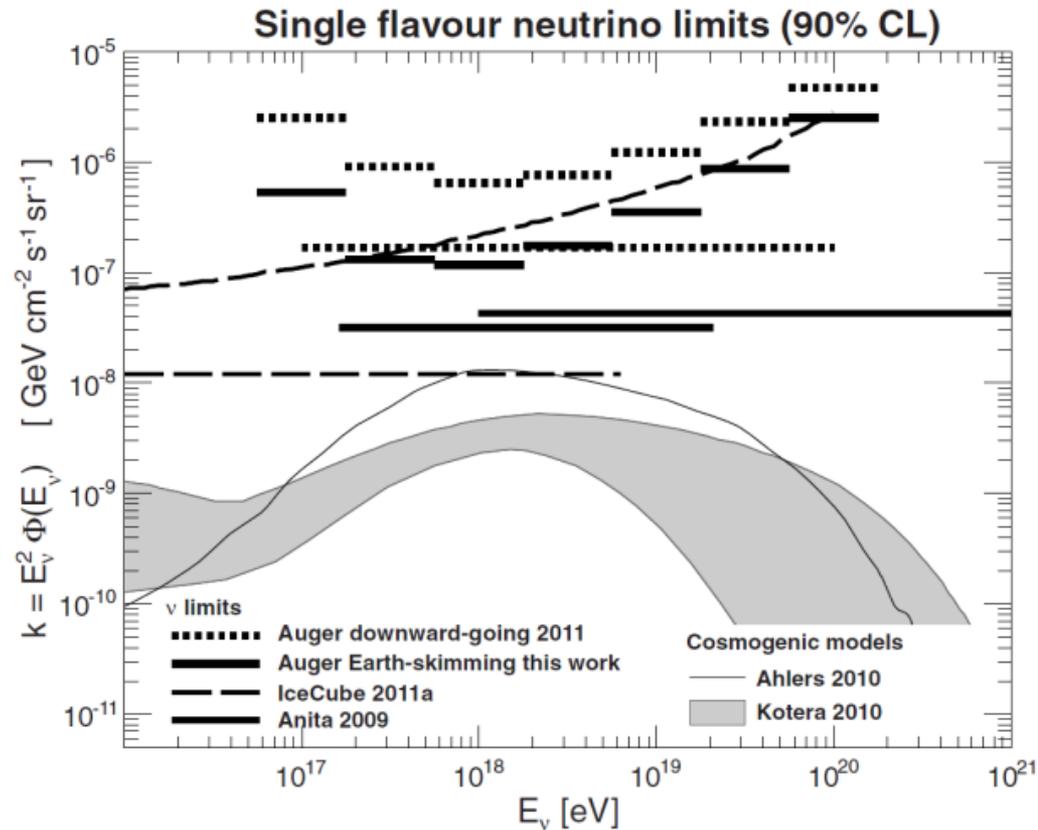
University of Łódź

IEEE Real Time Conference, Padova, Italy, June 2016

GZK and neutrinos in Pierre Auger

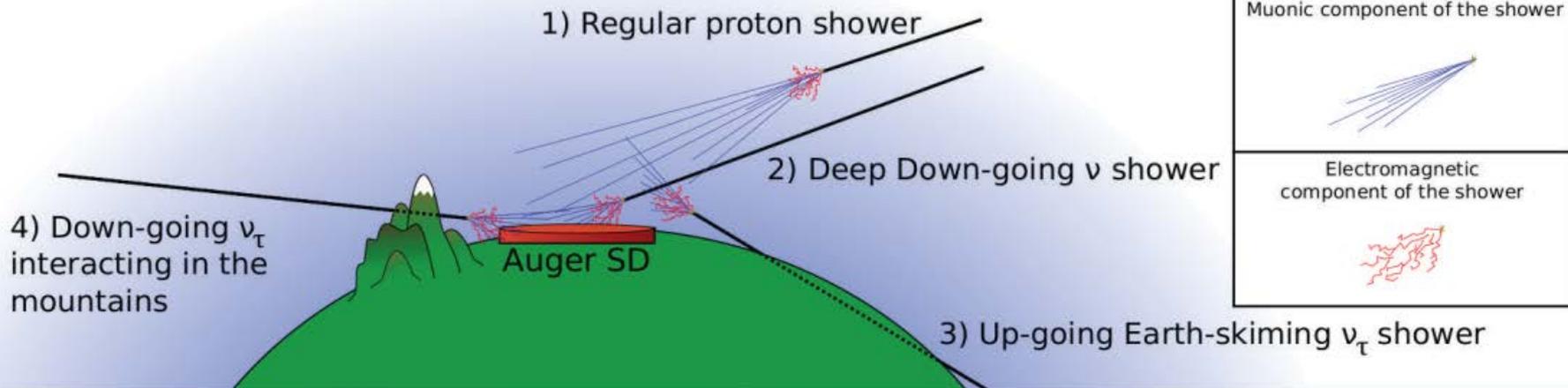


THE ASTROPHYSICAL JOURNAL LETTERS, 755:L4 (7pp), 2012 August 10

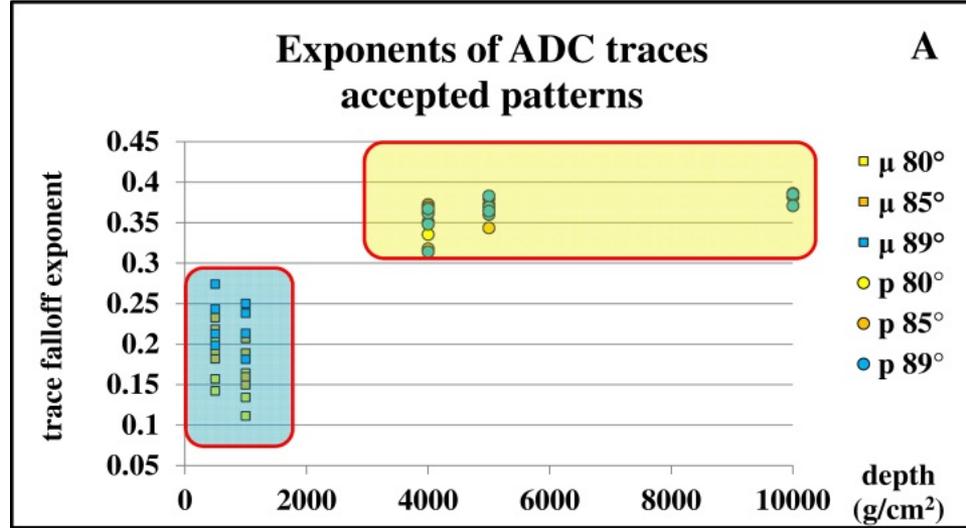
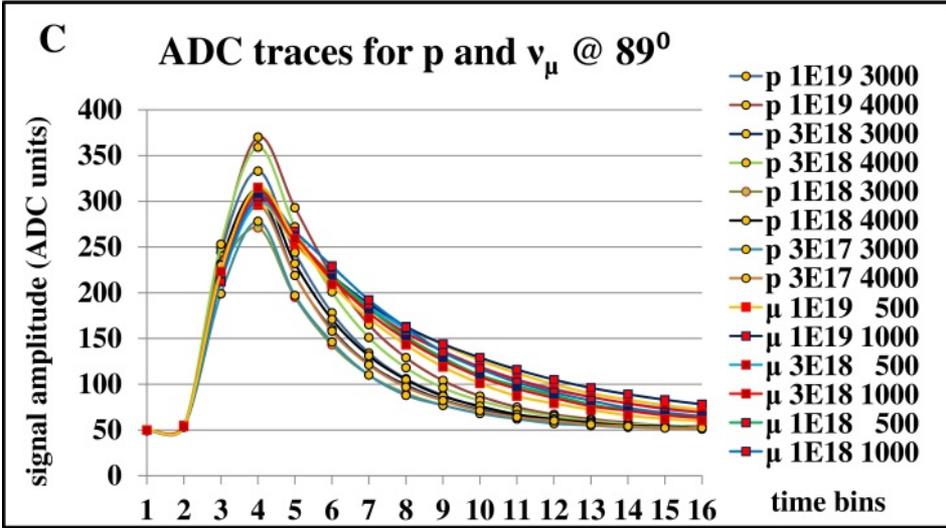
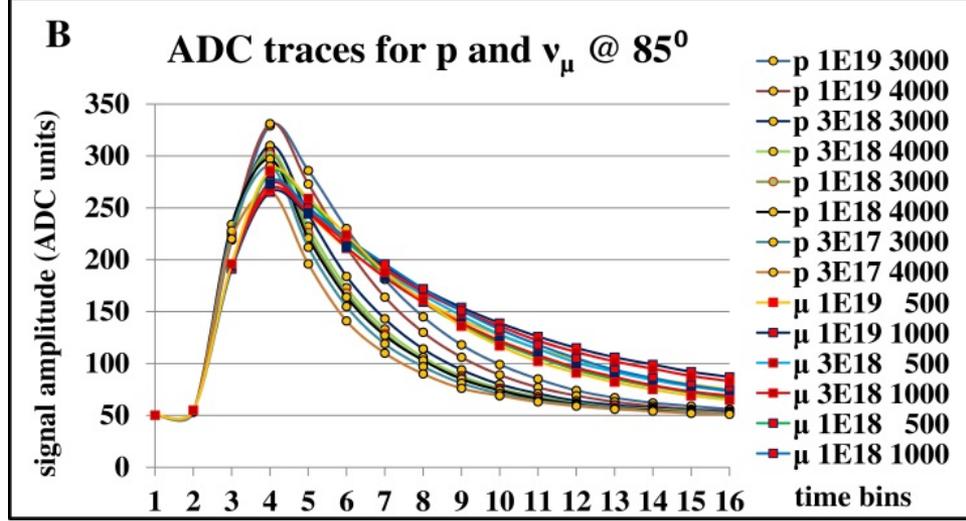
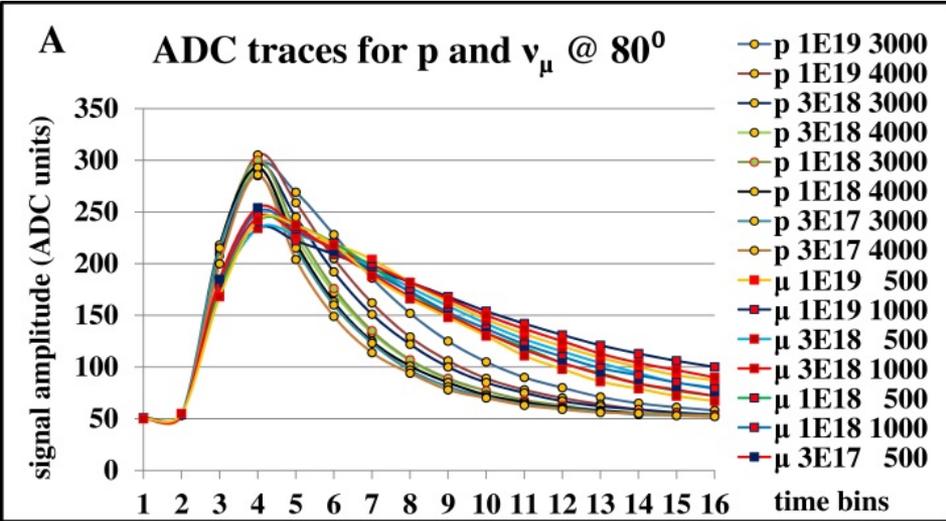


No neutrino candidates

No neutrino candidates have been found, which allows us to place competitive limits to the diffuse flux of UHE ν s in the EeV range and above.



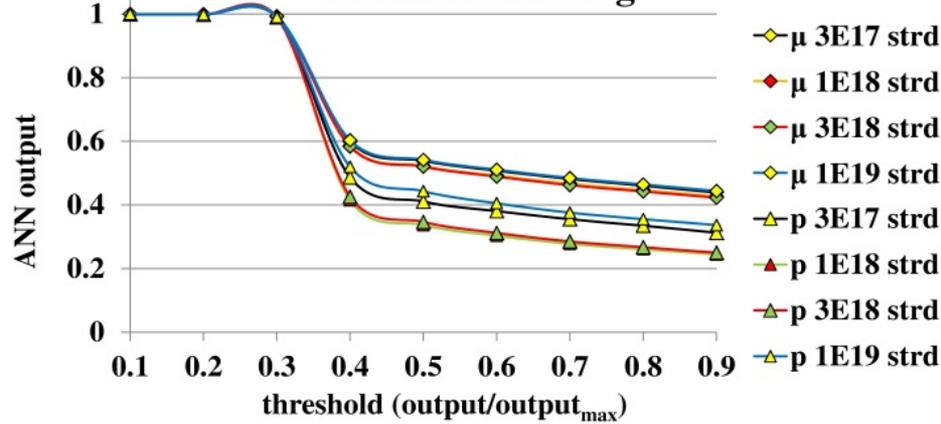
Efficiency



Efficiency

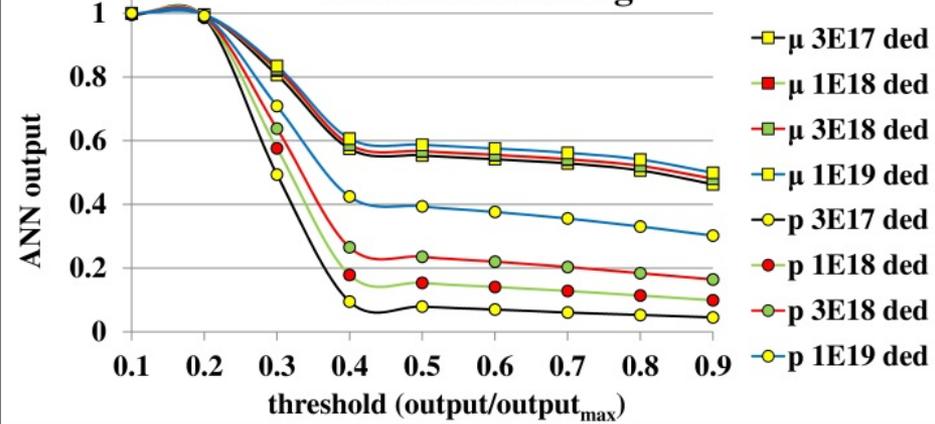
Separation efficiency vs. energy standard teaching

C



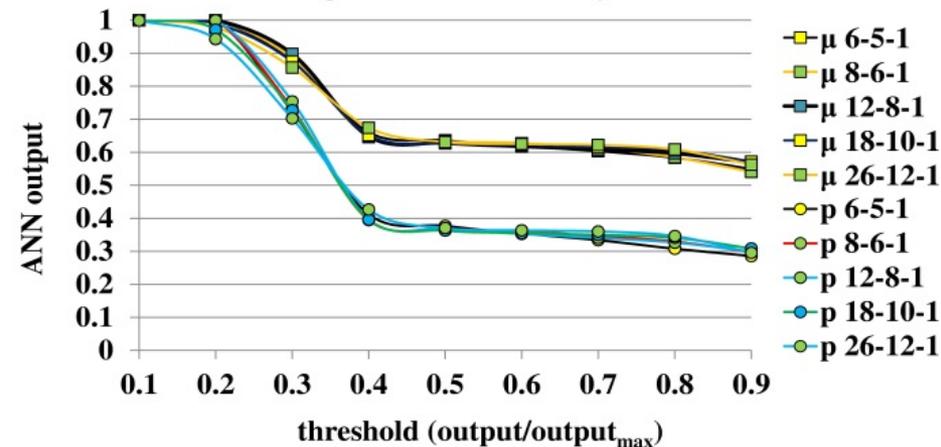
Separation efficiency vs. energy dedicated teaching

D



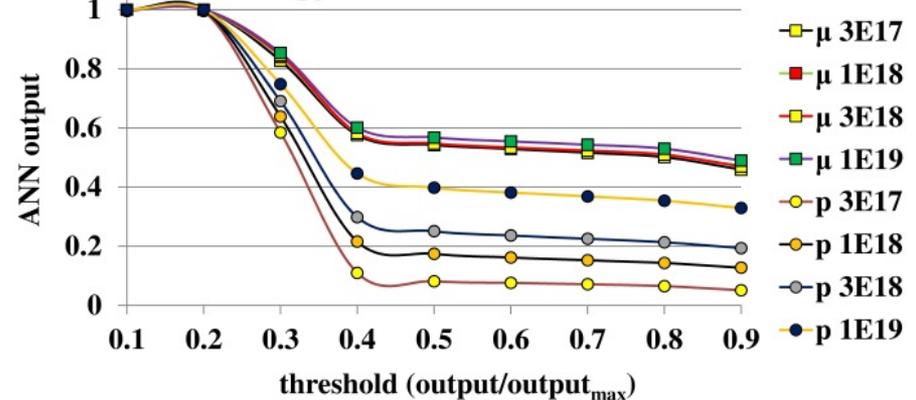
Recognition efficiency @ 80°

A



Dedicated separation efficiency vs. energy for the 36-24-1 network

B



FPGA implementation

