The ARSAKIA Schools in collaboration with scientitsts from CERN and NTUA, organise the Summer School for Lyceum students 26-30 June 2023 with title: MODERN PHYSICS INVESTIGATES THE FIRST MOMENTS OF THE UNIVERSE

Time	Monday 26/6	Tuesday 27/6	Wednesday 28/6	Thusday 29/6	Friday 30/6
08:30 - 9:45	Prof. N. Tracas A general introduction to the theory and experiments of elmentary particles	Prof. E. Gazis Introduction to the Experimental Particle Physics and the Experiments at CERN	colutrion	Prof. A. Kehagias Dark matter, from the invisible universe and the study in the experimetns at LHC	Prof. E. Gazis HOW I can study Physics?
10:00 - 11:15	Prof. E. Tsesmelis Introduction to the Accelerators at CERN	Dr. Ioan. Apostolakis Application of the GEANT code for the detectors simulation at CERN	Prof. E. Gazis Medical and Biological Applications of the Nuclear- Particle Physics Dr. Eleni Adamidi Artiifcial Intelligence to Health Care and COVID-19	Prof. M. Kokkoris Introduction to the Nuclear Astrophysics	Visit to the EVGENIDES FOUNDATION
11:30 - 12:30	Lunch	Laboratory 3: Study and Application of the FLUKA code for the ATLAS detector simulation M Kainourgiaki, E. Gazis	Dr. Ioan. Apostolakis Simulation of the future experiments at CERN	Dr. loan. Apostolakis Laboratory 6: Application of the GEANT4 code for the Detector at the LHC experiments	FOUNDATION
12:30 - 13:30	Dr. Andromachi Tsirou Laboratory 1: Study from the High Energy Physics detectors to building a HEP Experiment at CERN	Lunch	Lunch	Lunch	LUNCH
13:45 - 15:15	Laboratory 2: Playing with the quarks, Isotopes Life-time Calculation M Kainourgiaki, E. Gazis	Laboratory 4: Superconductors take off Experiment at CERN Panagiota Chatzidaki, Anja Kranjc Horvat	Laboratory 5: Digital PET learning module Experiment at CERN Panagiota Chatzidaki, Anja Kranjc Horvat	Laboratory 7: Experimental measurement of the radioactivity of the salt- Muon life-time measurement, M Kainourgiaki, E. Gazis	End of Summer School - Certicifications of Participation
15:30		- -			

Laboratories: Maria Kainourgiaki-SHMMY-NTUA, Dr. Eleni Adamidi-SHMMY-NTUA, Dr. Andromachi Tsirou-CERN, Panagiota Chatzidaki-CERN, Anja Kranjc Horvat-CERN Time Schedule: CET (Geneva Time)