INTERNATIONAL @ INFN COSMIC DAY PADOVA

The National Institute for Nuclear Physics (INFN) conducts theoretical and experimental research in the fields of subnuclear, nuclear and astroparticle physics. Its Padova unit is located in the Department of Physics and Astronomy of the University of Padova.



For the International Cosmic Day 2016, the researchers were joined by 180 students and nine teachers from six upper secondary schools: Licei Scientifici "Curiel", "Fermi" and "Galilei", Liceo "Nievo", Liceo Classico "Tito Livio and l'IIS "Alberti".





Dipartimento di Fisica e Astronomia Galileo Galilei

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The cosmic muon detector is made of two scintillator counters readout by two SiPM each, mounted on a rotating structure. The SiPM signals are processed by an electronic card hooked up to a mini-computer that exports the data on a publicly available webpage.





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	1/23+12	Counts 246
100		
200	989 Hz	177
	O,G HZ	
	AS4 112	108
60,0	032 HZ	63
70	0109 H2	18

We measured the muon rate for several zenith angles and normalized it to the rate at 0°. The data agree well with the cosine-square expected dependence.





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