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OUTREACH ITALY AND INTERNATIONAL SCHOOL PROGRAMS

There are numerous initiatives in which the Italian Institute for Nuclear Physics (INFN) collaborates which are addressed to high school students throughout Italy, in which youngstudents have the

opportunity to become acquainted with frontier particle physics research, discussing with their peers abroad.

An absolute novelty will be held on November 14: the World Wide Data Day (W2D2), organised this year for the first time by the International Particle Physics Outreach Group (IPPOG), of which the INFN is a member. Students will learn from their teachers how to analyse the real data of the CERN experiments and will then connect to discuss the overall results with other student groups worldwide who have simultaneously analysed the same data, in videoconference (in English). On November 30, on the other hand, the International Cosmic Day (ICD) will be dedicated to cosmic rays. Students, who in order to participate will have to go to the INFN divisions in universities, will analyse the data of real cosmic ray "detector". The same spirit is behind CERN's "historic" Masterclass, organised in collaboration with IPPOG for more than 10 years now by INFN, inspiring all these initiatives. Students, by going to the INFN divisions, will become researchers for a day, analysing the real data of the CERN experiments. The CERN Masterclasses will take place between February 15 and March 28 2018 throughout the country. Finally, CERN has announced the new edition of the "Beamline for Schools" competition, which offers high school students from all over the world the opportunity to carry out a real experiment they have designed at the prestigious Swiss laboratory. The teams wishing to participate must register on the CERN website by March 31 2018. There will also be an all Italian selection of teams, among which INFN will choose one team to conduct its experiment in one of the Italian laboratories.