## **SUMMER STUDENT LECTURE PROGRAMME 2019**

| Lecture Title                   | Electronics, DAQ and Triggers  |  |
|---------------------------------|--|--|
| Lecturer's name Roberto Ferrari |  |  |
| E-mail Address                  | roberto.ferrari@pv.infn.it   |  |
| Short CV                        | Experimental physicist, member of the<br>ATLAS collaboration, researcher in the<br>Pavia department of the Istituto Nazionale<br>di Fisica Nucleare (INFN).<br>At present working on MPGD detector<br>(Micromegas) construction, data<br>acquisition, for the ATLAS experiment<br>upgrades, and dual-readout calorimetry,<br>for future e+e- collider experiments. |  |
|                                 |  |  |

| Lecture Content | Please, have a look at the summer student |
|-----------------|---|
|                 | lectures of the previous year.            |
|                 |   |
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| Pre-requisites:                                | Having followed the lectures on detectors |
|--|---|
| earlier series of lectures                     | should be useful                          |
| earlier series of lecture<br>that the students | should be useful.                         |
| should follow                                  |   |
| Should follow                                  |   |

| Other pre-requisites: | Some knowledge of experimental physicis,  |
|-----------------------|---|
|                       | as well as some basics of electronics (in |
|                       | particular on operational amplifiers and  |
|                       | digital electronics) would help.          |