



UNIVERSITÀ  
degli STUDI  
di CATANIA

DIPARTIMENTO DI FISICA E ASTRONOMIA  
“Ettore Majorana”

DOTTORATO DI RICERCA IN FISICA

ANNO ACCADEMICO 2018 - 2019

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**Experimental Setups for High Energy Physics**  
2 CFU

**Teaching staff**

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**Program of the course:**

- HEP Detector Architecture
- Collider detectors vs fixed target ones
- Tracking principles and implementation
- Calorimeters for High Energy Physics
  - o Electromagnetic Calorimeters
  - o Hadronic Calorimeters
- Particle Identification through Cherenkov Detectors

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**Bibliography:**

[1] C.Grupen, B.Shwartz , **Particle Detectors**, Cambridge University Press

[2] Course notes.