



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Electronics for Physicists

2223-113R-08

Title

Electronics for Physicists

Teacher(s)

Prof. Gianluigi Pessina

Language

Italian/English

Short description

1. A physical/mathematical approach to the fed-backed amplifiers and their strategic importance;
2. The fed-backed amplifiers characteristics from the physical/mathematical method;
3. Frequency behavior of fed-backed amplifiers and the importance of stability;
4. Amplifiers and noise;
5. A heuristic introduction to transistors in view of their employment with low noise amplifiers;
6. Amplification of detector signals and optimization of their signal to noise ratio with emphasis on low frequency noise and low drift, jitter and radiation hardness.

CFU / Hours

2 CFU/16 hours

Teaching period

March-June 2023

Sustainable Development Goals
