



ISTITUZIONI DI FISICA TEORICA

FIS/02 - 9 CFU - Annual Tuition

Teaching Staff

FABIO SIRINGO

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LEARNING OBJECTIVES

Full knowledge and understanding of the foundations of special relativity and quantum mechanics. Ability to solve simple problems on elementary physical systems by the methods of quantum mechanics and classical electromagnetism. For more details on the content see also:

www.dfa.unict.it/corsi/L-30/docenti/fabio.siringo

COURSE STRUCTURE

Traditional lectures

Should teaching be carried out in mixed mode or remotely, it may be necessary to introduce changes with respect to previous statements, in line with the programme planned and outlined in the syllabus.

Learning assessment may also be carried out on line, should the conditions require it.

DETAILED COURSE CONTENT

Classical and relativistic mechanics, classical electromagnetism.

Quantum mechanics, foundations and simple applications.

Approximate methods (perturbative and variational methods)

For more details see: www.dfa.unict.it/corsi/L-30/docenti/fabio.siringo

TEXTBOOK INFORMATION

- 1) R. Shankar, Principles of Quantum Mechanics, Springer.
 - 2) C. Cohen-Tannoudji, B. Diu, F. Laloe, Quantum Mechanics Vol.I e II, Wiley.
 - 3) L.D. Landau, E.M. Lifshits, Vol.I Meccanica, Vol. II Teoria dei Campi e Vol. III Meccanica Quantistica, Editori Riuniti.
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