A.Y. 2014/2015

Internal Courses – Class of Natural Sciences

Courses of the 1st year

CALCULUS
Prof. Paolo Guiotto

COMPLEMENTS OF ANALYSIS
Prof. Carlo Mariconda

INTRODUCTION TO PROBABILISTIC MODELS
Prof. Alessandra Bianchi

FUNDAMENTALS OF THERMODYNAMICS
Prof. Fulvio Baldovin, Prof. Enzo Orlandini

Courses of the 2nd year

MEASURE THEORY
Prof. Pier Domenico Lamberti, Prof. Paolo Ciatti

INTERACTION NETWORKS IN LIVING SYSTEMS
Prof. Amos Maritan

OPEN PROBLEMS IN THE PHYSICS OF FUNDAMENTAL INTERACTIONS
Prof. Massimo Pietroni

CHEMICAL EQUILIBRIUM AND IRREVERSIBLE PROCESSES
Prof. Giorgio Moro

MEASUREMENT INSTRUMENTS AND TECHNIQUES
Prof. Giovanni Carugno

Courses of the 3rd year

Upon request, the courses of the 4th and 5th year can be accessed during the 3rd year too.

PROBABILITY AND INTRODUCTION TO STOCHASTIC PROCESSES
Prof. Paolo Dai Pra

FOUNDATIONS OF DIFFERENTIAL GEOMETRY
Prof. Franco Cardin, Prof. Andrea Giacobbe

GENERAL RELATIVITY
Prof. Kurt Lechner

LIFE SCIENCES
Prof. Gianni Barcaccia, Prof. Massimo Zeviani
Courses of the 4th and 5th year

One of the following courses can be replaced by an individual project, under the supervision of a teacher.

HARMONIC ANALYSIS
Prof. Paolo Ciatti

INTRODUCTION TO STRING THEORY
Prof. Stefano Giusto

PHILOSOPHY OF SCIENCE
Prof. Pierdaniele Giaretta, Prof. Telmo Pievani, Prof. Giulio Giorello

NANOSCIENCE AND NANOSYSTEMS
Prof. Luisa De Cola, Prof. Fabrizio Mancin