



scuolagalileiana
di studi superiori



**UNIVERSITÀ
DEGLI STUDI
DI PADOVA**

A.Y. 2015/2016

Internal Courses – Class of Natural Sciences

Courses of the 1st year

CALCULUS

Prof. Paolo Guiotto

COMPLEMENTS OF ANALYSIS

Prof. Carlo Mariconda

INTRODUCTION TO PROBABILITY MODELS

Prof. Alessandra Bianchi

INTRODUCTION TO THERMODYNAMICS

Prof. Fulvio Baldovin, Prof. Enzo Orlandini

Courses of the 2nd year

MEASURE THEORY

Prof. Paolo Ciatti

INTERACTION NETWORKS IN LIVING SYSTEMS

Prof. Amos Maritan

FLUID DYNAMICS

Prof. Roberto Turolla

CHEMICAL EQUILIBRIUM AND IRREVERSIBLE PROCESSES

Prof. Giorgio Moro

Courses of the 3rd year

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

ALGEBRAIC STRUCTURE

Prof. Matteo Longo

QUANTUM MECHANICS

Prof. Pieralberto Marchetti

SHORT COURSE IN ROBOTICS AND LEARNING

Prof. Jochen Steil, Prof. Livia Conti

CHEMICAL KINETICS

Prof. Mauro Sambi

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.

SPECTRAL THEORY

Prof. Pier Domenico Lamberti

GEOMETRIC METHODS IN THEORETICAL PHYSICS

Prof. Gianguido Dall'Agata

COMPARATIVE PHYSIOLOGY OF ORGANISMS ADAPTATION TO ENVIRONMENT

Prof. Mariano Beltramini

BIO-OPTOGENETICS

Prof. Giorgio Carmignoto, Prof. Gian Michele Ratto, Prof. Tommaso Fellin

SCIENCE MECCANO (THEORY)

Prof. Paolo Ciatti, Prof. Fulvio Baldovin