PH.D. IN MATHEMATICS AND COMPUTER SCIENCE
COURSE SCHEDULE
ACADEMIC YEAR 2022/2023

INTRODUCTION TO THE THEORY OF DISTRIBUTIONS

LECTURER: FELICE IANDOLI
UNIVERSITY OF CALABRIA

03 APRIL - 04 MAY

WE SHALL GIVE AN INTRODUCTION TO TWO BRANCHES OF THE MATHEMATICAL ANALYSIS: THE FOURIER ANALYSIS AND THE THEORY OF DISTRIBUTIONS. WE SHALL INTRODUCE SEVERAL TOOLS WHICH ARE UBIQUITOUS IN THE MODERN APPROACH TO THE STUDY OF PARTIAL DIFFERENTIAL EQUATIONS. TIME PERMITTING, WE SHALL USE THESE TOOLS TO DISCUSS THE LOCAL/GLOBAL WELL POSEDNESS OF SOME NONLINEAR SCHRÖDINGER EQUATIONS.

TOPICS:

- FOURIER TRANSFORM ON LEBESGUE SPACES
- DISTRIBUTIONS
- TEMPERED DISTRIBUTIONS/SOBOLEV SPACES
- LOCAL/GLOBAL WELL POSEDNESS FOR NLS

CLASS SCHEDULE:
MON 03/04 10:30-12:30
THU 13/04 10:30-12:30
MON 17 /04 10:30-12:30
MON 24/04 10:30-12:30
FRI   28/04 10:30-12:30
THU 04/05 10:30-12:30

- **CLASSROOM MT 14**

- **ONLINE: HTTPS://MEET.GOOGLE.COM/VVN-YIAQ-JDZ**