

Horizons Seminars 2019

27 Marzo, 17.30
Aula A

Edificio F - Dip. di Fisica

Via Valerio 2, 34134, Trieste (TS)

17.30
INTRODUCTION

17.45
SEMINAR
Networks:
unravelling complexity

18.15
SEMINAR
Anomalous diffusion
and fractional
calculus

19.15
TOPICS
FOR THE NEXT HORIZON

Introductory 30-minutes seminars.
By students for students, exploring
current interests of modern physics.

by Prof Parmigiani Fulvio
University of Trieste

by Dichio Vito and Drigo Enrico
Università di Trieste, Fisica, I magistrale
Complex networks emerge everywhere in science,
from neurobiology to statistical mechanics, from
metabolic pathways to coupled lasers... How to
describe them? How to handle them? How to use them?
By exploring random networks, graph theory, small-world
networks and scale-free network we will attack one of
the deepest problems of nowadays science: complexity.

by Fiorentino Alfredo
Università di Trieste, Fisica, I magistrale
From cooking to nuclear physics, diffusion is one of the most
well-known and common phenomenon, but there is still
plenty of room beyond it! In the realm of medium with strong
space-time correlations like fractals anomalous diffusions
can arise. Facing these new challenges led to new theories
and even new differential operators, the fractional ones.