

ISTITUTO NAZIONALE DI ALTA MATEMATICA (INdAM)

XLVII Summer
School on
Mathematical
Physics

Gruppo Nazionale per la Fisica Matematica (GNFM)

Ravello
12-24 September
2022

Courses:

Giorgio Parisi

(Roma)

"Spin glasses and complexity"

1a First Week (6 lectures)

Christophe Mourrat

(Lyon)

"A PDE approach to mean-
field disordered systems"

1b Second Week (6 lectures)

Benoit Perthame

(Paris)

"Adaptive evolution and
concentrations in nonlocal PDE"

2a First Week (6 lectures)

Maria Carmela Lombardo

(Palermo)

"Coherent structures in
reaction-diffusion systems"

2b Second Week (6 lectures)

Paola Goatin

(Sophia Antopolis)

"Macroscopic traffic flow
models on networks"

3a First Week (6 lectures)

Axel Klar

(Kaiserslautern)

"Kinetic models for
vehicular traffic and related
macroscopic models"

3b Second Week (6 lectures)

Gabriella Pinzari

(Padova)

"Applications of normal form
in celestial mechanics"

4a First Week (6 lectures)

Michela Procesi

(Roma)

"Recursive solution in
Hamiltonian PDEs"

4b Second Week (6 lectures)

"The aim of the school is to give introductory lectures by international experts in the fields Mathematical Physics and Applied Mathematics. The school is mainly addressed to young researchers."