



UNIVERSITÀ DEGLI STUDI DI MILANO

DIPARTIMENTO DI MATEMATICA
"FEDERIGO ENRIQUES"

13 April 2017

QFT Day in Milan: mathematical aspects of renormalization

Mathematics Department, U. Milano (Statale)

Via Cesare Saldini, 50 — 20133 Milano, Italy

Sala di Rappresentanza (ground floor)

- 9:00 — 10:30 Vieri Mastropietro (Milano)
Constructive QFT: a short review
- 10:30 — 12:00 Igor Khavkine (Milano)
*Perturbative renormalization in real space,
gauge theories, anomalies*
- 12:00 — 13:20 lunch break
- 13:20 — 14:35 Claudio Dappiaggi (Pavia)
*The importance of being Hadamard:
quantizing free field on curved backgrounds*
- 14:35 — 15:20 Nicolò Drago (Pavia)
A mathematical approach to renormalization
- 15:20 — 15:30 coffee break
- 15:30 — 16:45 Livio Pizzocchero (Milano)
*Local Casimir effect and ζ -regularization:
mathematical foundations*
- 16:45 — 17:30 Davide Fermi (Milano)
*Local Casimir effect and ζ -regularization:
scalar field in a rectangular box*

Organizers: Igor Khavkine, Vieri Mastropietro