



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)

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

Organizers: Igor Khavkine, Vieri Mastropietro