

Iniziativa specifica INFN

SFT, Statistical Field Theory

Elenco **sedi INFN nazionali** e responsabili locali

Trieste (Giuseppe Mussardo - coordinatore nazionale)

Cosenza (Domenico Giuliano)

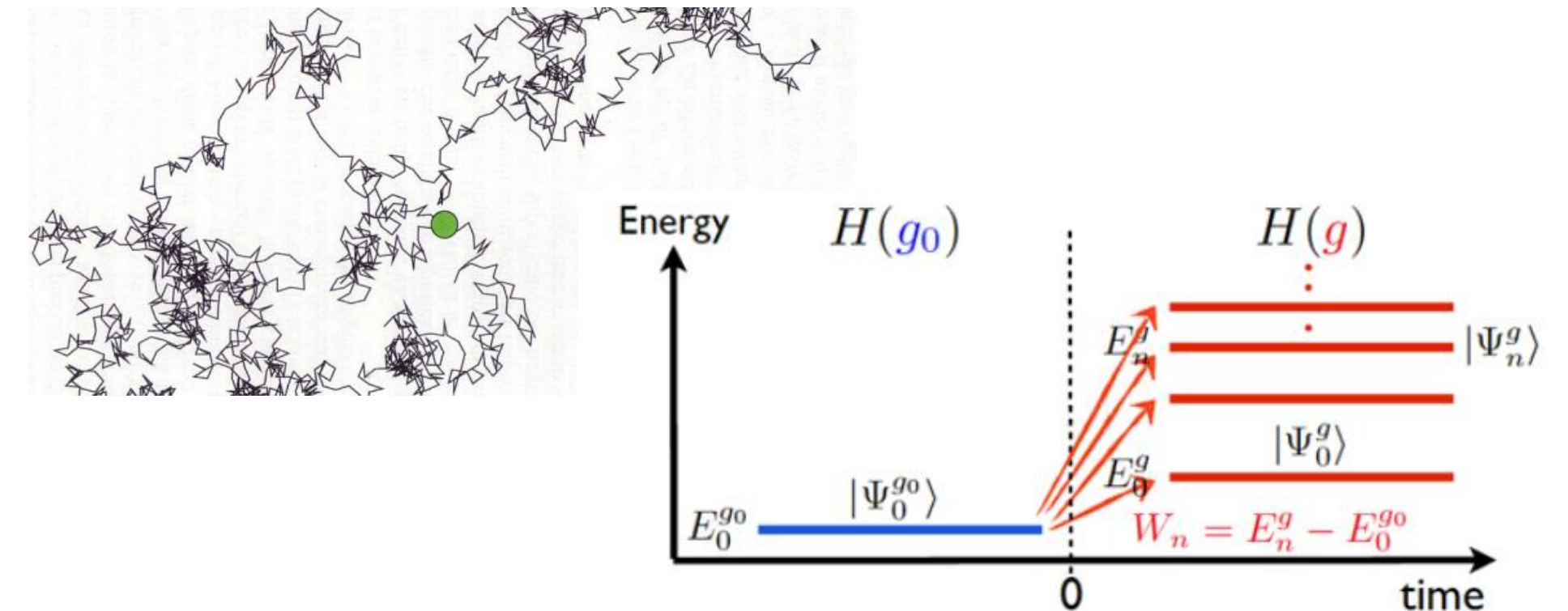
Firenze (Andrea Cappelli)

Genova (Nicodemo Magnoli)

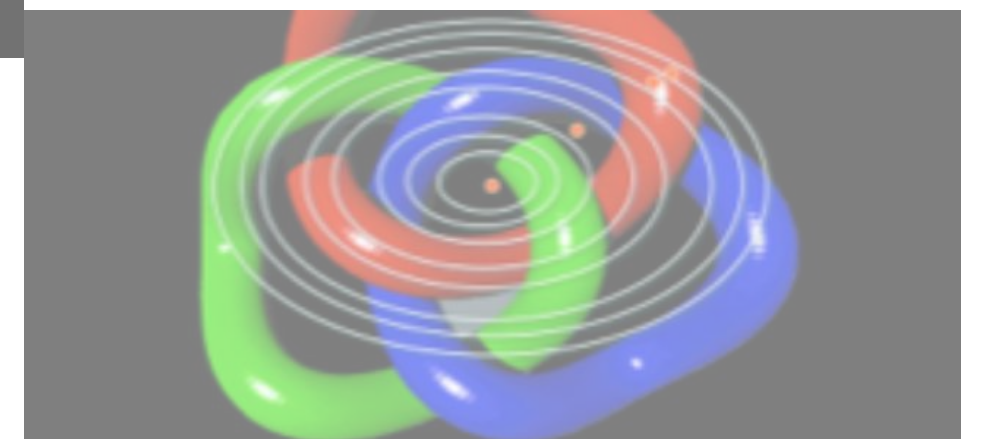
Milano (Luca Molinari)

Pisa (Davide Rossini)

Torino (Roberto Tateo)



A Feynman diagram equation showing a red circle with external lines equal to a sum of diagrams. The first term is a blue square with external lines. The second term is a sum over j of a diagram with a blue circle and external lines. The equation is:
$$\text{Red Circle} = \text{Blue Square} + \sum_j \text{Blue Circle} + \dots$$



Iniziativa SFT — Sede di Pisa

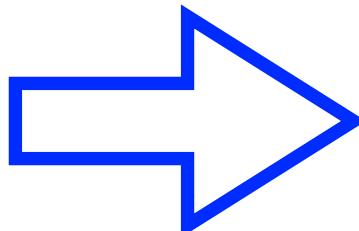
Strutturati

Vincenzo **Alba** (UniPi, RTDB, 100%)
Enore **Guadagnini** (UniPi, PO, 100%)
Michele **Mintchev** (INFN, Senior, 100%)
Davide **Rossini** (UniPi, PA, 90%)
Ettore **Vicari** (UniPi, PO, 100%)
Alessandro **Vichi** (UniPi, PA, 100%)

Non strutturati

Francesco **Bertucci** (UniPi, PhD, 100%)
Alessio **Franchi** (UniPi, PhD, 100%)
Johan **Henriksson** (UniPi, postdoc, 100%)
Stefanos **Kousvos** (UniPi, postdoc, 100%)
Brian **McPeak** (UniPi, postdoc, 100%)
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Giulia **Piccitto** (UniPi, postdoc, 100%)
Francesco **Russo** (UniPi, PhD, 50%)
Ning **Su** (UniPi, postdoc, 100%)
Francesco **Tarantelli** (UniPi, PhD, 100%)

Argomenti di ricerca:

- Quantum field theories (QFTs) out of equilibrium
 - Entanglement & quantum information dynamics
 - Topological phases of matter, field theories & duality
 - Conformal invariance, phase transitions & universality classes
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- Thermodynamics of quantum computation
 - Global & local gauge symmetries in SFT
 - Boundary states in condensed matter
 - Dynamic scaling behavior of quantum systems

Pubblicazioni (2021/2022): circa 40 articoli su riviste internazionali

Richieste finanziarie (14.4 FTE): missioni Italia/estero: 20 000 €