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Is quantum theory exact? The endeavor for the theory beyond standard quantum mechanics.



The Enrico Fermi Centre is a research institution, established in 1999 by a law of the Italian Parliament, devoted to multidisciplinary studies, where physics remains the core.

It aims to integrate the knowledge generated in different fields, and to promote discussion among top scientists with different areas of expertise.

Its activities run along three lines:

- Support of young, smart researchers by awarding fellowships;
- Support of interdisciplinary research projects at the forefront of the science;
- Diffusion of scientific culture and historic memory of Fermi's life and achievements.

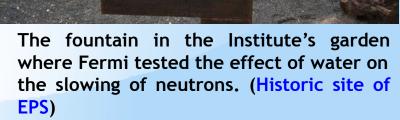


Enrico Fermi Nobel Prize (1938)



The Institute of Physics in "via Panisperna" (photo at the end of 1800), where Fermi and his collaborators made fundamental steps in nuclear physics.

Nowadays the restoration works are going on.





## Strategic Research Areas

RESEARCH LINES	
A	Extreme Energy Events (EEE) – Science inside Schools
В	Quark-Gluon Coloured World (QGCW) – ALICE and beyond
С	Advanced Techniques for Biomedical Applications
D	Energy
Е	Environment and Cultural Heritage
F	Fundamental Physics, History of Physics and Complexity

Open Problems in Quantum Mechanics - SSD Detectors Systems and Models of Dynamic Reduction

C. Curceanu, K. Piscicchia

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