Contribution ID: **9** Type: **not specified**

Geometric-Event Based Relativistic Quantum Mechanics

We propose a new framework for relativistic quantum mechanics in which the object of the theory are quantum events, rather than the quantum systems of textbook quantum mechanics. The basic framework is presented and the case of very simple relativistic systems (Dirac and Klein-Gordon) is worked out. The long term goal is to recover all known relativistic quantum mechanical effects and, hopefully, resolve some of the problems that more conventional approaches run into.

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Session Classification: Caffè e poster (dal N. 9 al N. 51)