1086-81-1028 Sonia Mazzucchi\* (mazzucch@science.unitn.it), via Sommarive 14, I 38123 Trento, Italy. Feynman path integrals as infinite dimensional oscillatory integrals.

The talk will describe the theory and some recent applications to nonrelativistic quantum mechanics of "infinite dimensional oscillatory integrals": a particular class of functional integrals that provide a rigorous mathematical definition of Feynman path integrals. (Received September 18, 2012)