

NAPLES RESEARCH ON THE CASIMIR EFFECT

The principal research topics of the Naples group are: the connections between general relativity and quantum fluctuations, field theory on curved space-time with boundary and applications to the Casimir effect, and the influence of quantum fluctuations on phase transitions. As far as the last topic is concerned, our group is currently performing the Advanced Aladin experiment (funded by the INFN) in which the influence of Casimir energy on the phase transition conductor-superconductor is expected to be measured.