Contribution ID: **22** Type: **Poster**

STUDY OF THE CASIMIR EFFECT IN SCALAR, ELECTROMAGNETIC AND SPINOR FIELD THEORY.

We study the Casimir Effect as a product of continue fluctuations on the vacuum space between a system of two parallel conducting plates that confine different types of fields as scalar, electromagnetic and spinor field analyzing each one of them at zero and finite temperature and finding, at calculate the vacuum energy, that always exists an attractive force, that in each cases is different, between the plates when they are separated an small distance, taking into account relativistic effects for an scalar field and considering a massless fermionic field.

Authors: CARTAGENA ATARA, Sandra Milena (Universidad Nacional de Colombia); Dr QUIMBAY HERRERA, Carlos Jose (Universidad Nacional de Colombia)

Presenter: CARTAGENA ATARA, Sandra Milena (Universidad Nacional de Colombia)