

# On the open string pair production in Type II superstring theories

*Monday, 2 December 2024 09:00 (40)*

In this talk, I will report the progress made on the open string pair production, like the Schwinger pair production in QED, for a system of two Dp-branes placed parallel and with either carrying an electric field in Type II string theories. We explain the physics behind the pair production enhancement when a particular magnetic flux is also applied. In addition, we will discuss the relation between the stringy computed pair production rate and the relevant one computed in QED along with the underlying implications.

**Presenter(s) :** LU, Jian-Xin (USTC)

**Session Classification :** Day3 Main venue