

Twisted differential K -characters and D -branes

Fabio Ferrari Ruffino

UFSCar

Abstract

Starting from the definition of twisted Cheeger-Simons K -character, we show how to describe D -brane world-volumes, the Wess-Zumino action and topological D -brane charges within the K -theoretical framework in type II superstring theory. We stress in particular how each feature of the old cohomological classification can be reproduced using the K -theoretical language.