Seminario
Departamento de Física Teórica

"Twisted Torus bundle and U(1) symmetries of the Supermembrane theory in a constant flux background"

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Abstract:

Abstract: In this talk I will discuss some recent results of the Supermembrane worldvolume theory compactified a on a toroidal target space with particular constant flux backgrounds. I will review that it implies the existence of a central charge condition on its worldvolume and consequently it has discrete spectrum. I will show that its bundle description is described in terms of a M2-brane Twisted Torus bundle. This bundle description will exhaust the classification of the possible inequivalent classes of M2-brane bundles for target space considered. I will show that under certain assumptions, the theory also exhibits some U(1) global and local worldvolume symmetries not manifest from the very beginning.

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