

# Non-abelian DBI Action on Magnetized Extra Dimensions

*Wednesday, 16 December 2020 15:20 (20 minutes)*

We study the D-branes on the magnetized extra dimensions and corrections of the flux to the effective theories. Specifically we focus on toroidal compactifications of non-abelian DBI action, and compute the flux corrections to the gauge couplings, the Kaehler metrics of charged matters and the scalar four-point couplings. In this talk, we would like to show the results of the dimensional reduction and discuss the D-term potential and whether the Kaehler metric can be read consistently with the D-term potential. This talk is based on the work in progress with Tetsutaro Higaki, Tatsuo Kobayashi and Shintaro Takada.

**Presenter:** Mr ABE, Yoshihiko (Kyoto U.)

**Session Classification:** Short talks