Gerbes are higher analogue of complex line bundles. Gerbe modules are twisted version of vector bundles. In this talk, we will first briefly introduce models of gerbes and gerbe modules. Then we will briefly introduce some applications: in topology/geometry, we will talk about twisted K-theory and the fractional index theorem of Mathai-Melrose-Singer; in physics, we will talk about topological T-duality.

Date: Monday, 6 May 2019
Time: 3:00p.m. - 5:00p.m.
Venue: Room 4472, Academic Building (near Lifts 25-26), HKUST

All are welcome!