

Talk on September 26, 2024, 15:00 am

Speaker: Prof.Chenchang Zhu, Universität Göttingen

Title: iCFO of Higher Derived Groupoids and Shifted Symplectic Structures

Abstract:

In this talk, based on many previous works, we will introduce a helpful new tool for differential geometers using:

- higher: to deal with quotient singularities
- derived: to heal transversality problems
- shifted: for more flexible symplectic situations.

At the same time as being as complete as possible, we also make the framework as explicit as possible using groupoid models. We build an incomplete category of fibrant objects (iCFO) for higher derived Lie groupoids. In the end, we will explain in some concrete examples how this theory is used. This is based on a joint work in progress with Miquel Cueva Ten, Florian Dorsch and Reyer Sjamaar.