早大理工トポロジーセミナーのお知らせ

Stated skein modules and algebras

Julien Korinman
（早稲田大学, JSPS fellow）

日時： ２０２１年１１月１１日（木）１６：３０ 〜
November 11 (Thursday)

場所： 早稲田大学西早稲田（理工）キャンパス
51 号館 18 階 18-06 セミナー室
Waseda University Nishi-Waseda Campus
51 st building, 18th Floor, room 18-06

Abstract

Skein modules of 3 manifolds have been introduced by Hoste-Przytycki and Turaev in the late 80's as tools to study Topological Quantum Field Theories and their links and 3-manifolds invariants. They are modules associated to compact oriented 3 manifolds and can be thought of as quantizations of character varieties. Despite an important amount of work on the subject in the last 30 years, these modules are still poorly understood.

Recently, Bonahon-Wong and Lê defined a generalization of skein modules named stated skein modules. They are modules associated to 3 manifolds with some discs embedded in their boundary and have a nice behaviour for the operation of gluing two such discs together. Stated skein modules permit to cut skein modules into elementary pieces so provide valuable tools for their study.

The goal of this talk is to provide an introduction to stated skein modules and to enlight some recent results on the subject. The talk is intended to be accessible to a large audience and does not require any knowledge beyond very elementary topology.

西早稲田キャンパスへのアクセスは
  https://www.waseda.jp/top/access/nishiwaseda-campus
を参照してください．皆様のお越しをお待ちしております．

世話人： 村上 順 （早稲田大学基幹理工学部数学科）
e-mail: murakami@waseda.jp