

# 早大理工トポロジーセミナーのお知らせ

## Belavin-Drinfeld Quantum Groups

**Milen Yakimov**

(Louisiana State University)

日時： 2017年 1月24日 (火) 16:30 ~  
January 24 (Tuesday)

場所： 早稲田大学 西早稲田キャンパス

51号館17階 17-06室

Waseda University, Nishiwaseda Campus,  
51st building, 17th floor, Room 17-06

### Abstract

All quasitriangular Poisson structures on simple Lie groups are given by the Belavin-Drinfeld classification from the early 80s. In 2000 Etingof, Schedler and Schiffmann constructed explicit formal quantizations of them. On the basis of this, we construct algebraic quantizations  $\mathcal{O}_{\tau,q}(G)$  of the coordinate rings of the corresponding connected, simply connected algebraic groups  $G$ . They are Hopf algebras that deform each of the Belavin-Drinfeld Poisson structures on  $G$ . In this talk we will describe structure results for these Belavin-Drinfeld quantum groups, culminating with a Levi type decomposition for them. This is a joint work with Tim Hodges, University of Cincinnati.

西早稲田キャンパスへのアクセス, 51号館の位置は

<https://www.waseda.jp/fsci/access/>

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](mailto:murakami@waseda.jp)