Math 224b Lie Groups
Spring 2017

Venue: Goldsmith 317
Time: Block P, TTh 3:30-4:50
Instructor: Bong Lian (lian@-, Goldsmith 314, X6-3069)
Office Hours: TTh 4:50-5:50 or by appointment

Course Description
This will be an introduction to the theory of compact Lie groups. There is no official textbook. I will draw material from the following books:

M.R. Sepanski, Compact Lie Groups
J.J. Duistermaat and J.A.C. Kolk, Lie Groups
G.E. Bredon, Introduction to Compact Transformation Groups

All other course material and course related announcements will be posted on my webpage

http://people.brandeis.edu/~lian/math140a-F16/140a-F16.html

Topics I plan to cover include

Lie groups and basic notions
Basic topology of Lie groups
Transformation groups
Integration on Lie groups
Representation theory of compact groups
Harmonic analysis on compact groups
Lie algebras of Lie groups

Grading
Late homework will be accepted with a 25% penalty, up to one week after the due date. Homework submitted more than one week late or after the solution has been posted will not be accepted. There will be no exams in this course. A student grade will be based on their homework assignments. If time permits, students may be asked to prepare and lecture on selected topics, in which case this will be reflected in the student’s grade.