

Student Algebraic Geometry Seminar

Organizer(s): Andrew Critch and Andrew Dudzik

Fridays, 4:00–5:00pm, 740 Evans

Fri, Apr 20 **Pablo Solis**, UC Berkeley

Bundles on \mathbb{P}^2 and Stability

I'll survey some of the classic results on stable bundles on curves and projective space. Then I'll go into some detail on rank 2 bundles on \mathbb{P}^2 . The main result is that this problem reduces to line bundles on finite coverings of the plane. If time permits I'll discuss the moduli space of semistable rank 2 bundles with trivial first Chern class and possibly instantons in algebraic geometry.

After the seminar, everyone is invited out for drinks and dinner with the speaker.