

THE TRIVIAL NOTIONS SEMINAR

Leon Liu

will speak on

Borel–Weil and Berry phase

ABSTRACT

Borel–Weil is a fundamental theorem in geometric representation theory: if G is a compact Lie group, the Borel–Weil says that irreducible G -representation are in correspondence with G -equivariant line bundles on G/T , where G/T is the flag variety. We will recover this statement from a quantum mechanics model called the Berry phase, which is an important concept from physics, namely condensed matter. No prerequisite for rep theory or physics required.

Friday, September 2, 2022

at 12:00 pm

Science Center, Room 232