

Algebra/Topology Seminar

ANTUN MILAS

TWISTING WEIL AND WEYL: A DETOUR THROUGH VERTEX ALGEBRAS

Thursday, March 6, 2025

3:00 p.m. in SS-256

ABSTRACT. We will revisit several classical results in the representation theory of semisimple Lie groups and algebras, tracing their origins back to the 1930s and 1960s. Taking a detour through the ‘chiral’ domain, we’ll make a long (but scenic!) journey through vertex algebras to extend these results in the setup of infinite-dimensional algebras. Finally, with a clever twist, we’ll find ourselves back in the classical representation theory, though perhaps seeing it with new eyes.