

THE REGULARITY OF THE GENERALIZED SEIBERG—WITTEN FUNCTIONAL

Speaker: Wanjun Ai
Southwest University

Time: Tue., June 11th, 10:00 – 11:00

Venue: Room 102, SCMS

Abstract:

In this talk, I'll introduce the generalized Seiberg—Witten functional, which includes the classical Seiberg—Witten and Kapustin—Witten functionals from quantum field theory as special cases, with wide-ranging applications in mathematics. I'll explore the regularity of critical points within this framework and discuss partial existence results when the structure group is Abelian. This is collaborative work with Shuhan Jiang and Jürgen Jost.