

The Arithmetic of Power Series and Applications to Irrationality

Monday, October 9, 2023 2:00 PM (1 hour)

In this talk, we will discuss various irrationality and linear independence problems including the irrationality of 2-adic zeta value at 5. The proofs use an arithmetic holonomicity theorem, the special case of which was used in the proof of the unbounded denominators conjecture; arithmetic holonomicity theorems have also been studied in the recent work of Bost and Charles. This is a joint work in progress with Frank Calegari and Vesselin Dimitrov.

Presenter: Prof. TANG, Yunqing (University of California - Berkeley)