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Welcome to the p-modular World

Thursday, July 24, 2025 11:00 AM (30 minutes)

Given a prime integer p, the goal of this talk is to explain how the p-modular representation theory of p-adic groups strongly differs from the classical representation theory of p-adic groups (i.e. over complex vector spaces) and from the ℓ-modular representation theory when ℓ is a prime integer other than p. We will use the basic examples of $\mathrm{GL}_2(F)$ and $\mathrm{SL}_2(F)$, with F being a finite extension of the field of p-adic numbers, as guidelines, so that no specific background beyond classical representation-theoretic definitions is required.

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