

Séminaire de théorie des nombres

Le 06 octobre 2025 à 14h (PRG salle 1005)

Moduli spaces of analytic p -divisible groups

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Résumé : We prove a classification of analytic p -divisible groups over perfectoid spaces S over \mathbb{Q}_p in terms of Hodge–Tate triples on S , generalizing a theorem of Fargues. From this, we construct an analytic Dieudonné theory with values in mixed characteristic Shtukas over the Fargues–Fontaine disc. We use our results to realize the local Shimura varieties of EL and PEL type of Scholze–Weinstein as moduli spaces of analytic p -divisible groups, and we reinterpret the Hodge–Tate period map of Scholze in terms of p -topological torsion subgroups of abelian varieties.