

Abstract

ICM Emmy Noether Lecture

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[Representations of p-adic groups](#)

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Motivated by the Langlands program in representation theory, number theory and geometry, the theory of representations of a reductive p-adic group, originally in complex vector spaces, has been widely developed in modules over a commutative ring during the last two decades. Addressed to a broad audience, the 2022 ICM Noether Lecture is accessible without prerequisite and conveys intuition on the most striking results.