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Witt vectors and perfectoid rings

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Abstract: This talk will introduce (p-typical) Witt vectors and the de Rham-Witt complex. Classically these are evaluated on rings of characteristic p , but our focus will be on rings which are p -torsion-free. In particular, we hope to discuss special features of Witt vectors and the de Rham-Witt complex when they are evaluated on p -torsion-free perfectoid rings. This is joint work with Irakli Patchkoria, and is based on earlier work of Hesselholt and Hesselholt-Madsen.

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MATHEMATICS
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