

# A Homotopical Approach to Crystalline Cohomology

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A naive approach to crystalline cohomology is to lift a smooth ring to characteristic zero and then to take de Rham cohomology. However, due to the non-canonical local nature of this process, it isn't easy to glue in order to define crystalline cohomology globally by this method. We consider a variant of this approach by taking higher homotopies into account, making the lift canonical and gluing easy. (Joint work with G. Tamme.)

**Orateur:** Prof. KERZ, Moritz (University of Regensburg)