

# Connected components of moduli spaces of $p$ -divisible groups

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**Abstract :** The moduli spaces of  $p$ -divisible groups are introduced by Rapoport and Zink which are formal schemes over the ring of integers of some non-archimedean field. They are local analogue of Shimura varieties. We will determine the set of geometrically connected components of the generic fiber of Rapoport-Zink spaces with level structures as rigid analytic spaces. The talk is partly based on a joint work with Mark Kisin and Eva Viehmann.