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Siddarth Sankaran* (siddarth.sankaran@utoronto.ca). *Cycles on Rapoport-Zink spaces and modular forms.*

In this talk, I will discuss examples of Rapoport-Zink spaces, which are moduli spaces of p -divisible groups, and structural results regarding certain families of ‘special’ cycles on them. Understanding these (local) cycles is a crucial step in Kudla’s programme, which seeks to relate (global) cycles on Shimura varieties to Fourier coefficients of modular forms. (Received August 14, 2014)