

***EMBEDDINGS OF SOME EXCEPTIONAL SHIMURA
VARIETIES INTO SIEGEL VARIETY***

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Abstract:

We define a class of local Shimura varieties that contain some Shimura varieties for some exceptional groups, and for this class, we give a functor from (G, μ) -shukas to p -divisible groups. As an application, we prove that for this class, the local Shimura variety is representable and perfectoid at the infinite level. Considering the global counterpart of this class, we embed some exceptional Shimura varieties into the Siegel variety. In particular, we prove that they are perfectoid at the infinite level.