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On modular forms for orthogonal groups of rank 2

The construction of toroidal compactifications for non-compact Shimura varieties of orthogonal type allows to relate holomorphic differential forms on Kuga–Sato varieties, i.e., higher weight modular forms for $SL(2)$, and modular forms for $O(n, 2)$. I will describe the construction of the map providing this relation.