

On Maass lift to Siegel paramodular forms

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Abstract. Maass lift or Saito-Kurokawa lift is a method to construct Siegel modular forms from Jacobi forms. Most well-known one is a lift from Jacobi forms of index 1 to Siegel modular forms with respect to $SP(2, \mathbb{Z})$. To Siegel paramodular forms of level N , Gritsenko constructed a lift (so called Gritsenko lift) from Jacobi forms of index N . The case with characters, recently Ibukiyama constructed Maass lift from Jacobi forms of index 1 to Siegel modular forms with levels. Here we combine their results to construct a lift from Jacobi forms to Siegel paramodular forms with characters. This lift is useful to construct some generators of the ring of Siegel paramodular forms.