



Transfer of Siegel Cusp Forms of Degree 2 (Memoirs of the American Mathematical Society)

Ameya Pitale, Abhishek Saha, Ralf Schmidt

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Let ρ be the automorphic representation of $\mathrm{GSp}_4(\mathbb{A})$ generated by a full level cuspidal Siegel eigenform that is not a Saito-Kurokawa lift, and τ be an arbitrary cuspidal, automorphic representation of $\mathrm{GL}_2(\mathbb{A})$. Using Furusawa's integral representation for $\mathrm{GSp}_4 \times \mathrm{GL}_2$ combined with a pullback formula involving the unitary group $\mathrm{GU}(3,3)$, the authors prove that the L-functions $L(s, \rho \times \tau)$ are "nice". The converse theorem of Cogdell and Piatetski-Shapiro then implies that such representations ρ have a functorial lifting to a cuspidal representation of $\mathrm{GL}_5(\mathbb{A})$. Combined with the exterior-square lifting of Kim, this also leads to a functorial lifting of ρ to a cuspidal representation of $\mathrm{GL}_5(\mathbb{A})$. As an application, the authors obtain analytic properties of various L-functions related to full level Siegel cusp forms. They also obtain special value results for $\mathrm{GSp}_4 \times \mathrm{GL}_2$ and $\mathrm{GSp}_4 \times \mathrm{GL}_2$.

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