

On Certain Siegel Modular Forms of Level 4

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In this talk, we present new dimension formulas of Siegel cusp forms of degree 2 for certain congruence subgroups of level 4. To obtain these desired dimension formulas, we will explore the connection between Siegel cusp forms of degree 2 and cuspidal automorphic representations of $\mathrm{GSp}(4)$. This is ongoing joint work with Manami Roy and Ralf Schmidt.