## Ikeda's conjecture on the Petersson inner product of the Ikeda lifting

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Let n and k be positive even integers satisfying that k > n + 1. Then we could consider the so-called Ikeda lifting of elliptic cusp forms of weight 2k - n to Siegel cusp forms of degree n and weight k, which is a generalization of the Saito-Kurokawa lifting. Professor T. Ikeda gave a conjecture on the Petersson inner product of the lifting. In this talk, I would like to explain our strategy for proving this conjecture and to report recent progresses, in particular, in the case n = 4.

Presented by Kawamura Hisaaki