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*Mock period functions, sesquiharmonic Maass forms, and
non-critical values of L-functions*

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Abstract: In this talk we view the generating functions of L-functions associated to cusp forms in the framework of automorphic forms. We prove that it can be interpreted as a "mock period function". Further, we show that non-critical values can be encoded into a "sesquiharmonic Maass form". Finally, we formulate and prove an Eichler-Shimura-type isomorphism for the space of mock period functions.

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