Cuspidal automorphic forms constructed via Poincare series, their non–vanishing and applications

Plenary lecture

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In this lecture we describe our recent work on construction of certain classes of cuspidal automorphic forms of one variable, their non–vanishing and applications to the problems of construction of explicit embeddings of compact Riemann surfaces in projective spaces, and non—vanishing of automorphic L–functions in the critical strip attached to modular forms.

Section: 3,5.

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