

**Speaker:** Nicolas Templier

**Title:** Sup-norm of automorphic forms

**Abstract:** We will survey recent results on the problem of bounding the sup-norm of automorphic forms. If  $f$  is a cuspidal automorphic form on a reductive group  $G$  it is classical to study its value distribution and in particular the sup-norm  $\sup_{g \in G} |f(g)|$ . We will focus on the  $GL(2)$  case which includes Hecke–Maass cusp forms, holomorphic and Hilbert modular forms and automorphic forms on quaternion algebras. There are interesting connections with local harmonic analysis (archimedean and non-archimedean), quantum chaos, periods and integers represented by quadratic forms.