1167-11-42 **Igor V. Nikolaev***, Da Silva Academic Center, St. John's University, 300 Howard Avenue, Staten Island, NY 10304. *Langlands reciprocity for C^*-algebras.*

We introduce a C^*-algebra $\mathcal{A}_V$ of a variety V over the number field K and a C^*-algebra $\mathcal{A}_G$ of a reductive group G over the ring of adeles of K. Using Pimsner's Theorem we construct an embedding $\mathcal{A}_V \hookrightarrow \mathcal{A}_G$, where V is a G-coherent variety, e.g. the Shimura variety of G. The embedding is an analog of the Langlands reciprocity for C^*-algebras. It follows from the K-theory of the inclusion $\mathcal{A}_V \subset \mathcal{A}_G$ that the Hasse-Weil L-function of V is a product of the automorphic L-functions corresponding to irreducible representations of the group G. Reference: https://arxiv.org/abs/1505.03054 (Received February 08, 2021)