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Langlands' Automorphic L-functions and Functoriality Principle

This expository talk is an appreciation of some of the Langlands's early work which may be considered as the starting point of his program. I will discuss how his work on the Eisenstein series and his computations of their constant terms led him to define a number of important notions within his program: L-groups, Frobenius-Hecke conjugacy classes, and consequently L-functions, an object which he had been searching for quite sometime unsuccessfully, before he did these calculations. These objects, discovered in the second half of 1966, also played an important role in his famous 1967 letter to Andre Weil. The same ingredients were essential in the formulation of his Functoriality Principle which we will report on during this talk as well.