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Christophe Eckes* (eckes@math.univ-lyon1.fr), 19, rue Denfert-Rochereau, 90000 Belfort, France. *Weyl's lecture courses on group theory at the Institute for Advanced Study (Princeton) before the Second World War.*

In this talk, we aim at analyzing Weyl's lecture courses on the theory of Lie groups (1934-1935) and on invariant theory (1935-1937) at the IAS. In particular, his lectures on invariant theory will lead to his famous book entitled *The classical groups, their Invariants and Representations* (first edition 1939, second edition 1946). To this end, we will comment two kinds of documents which can be found at the Weyl-archive (ETH-Bibliothek): 1. a series of notebooks, in which Weyl sketches the main outlines of his courses; 2. the typescript fascicules of these lectures written by Weyl with the help of his assistants: R. Brauer, O. Blumenthal and A. Clifford. We will try to determine the audience of his courses and we will describe Weyl's situation at the Institute for the Advanced Study before the Second World War. (Received September 10, 2012)