



UNIVERSIDAD
DE ALMERÍA



TÍTULO: Hopf-Galois theory for separable field extensions.

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FECHA: 11 junio 2024. **HORA:** 12:00. **LUGAR:** Seminario Emmy Noether (Edf. CITE III. Sala 1.22)

ABSTRACT: The classical Galois theory dates back to 1830, but it took more than 100 years for it to be reformulated (by Artin) in the language of module theory. Artin's criterion that decides when an extension of fields is Galois allows the classical Galois theory to be extended to Hopf algebras. This was initiated by Chase and Sweedler in 1969 in the commutative case, the general case being considered by Kreimer and Takeuchi in 1981.

The purpose of our presentation is to make the transition from the classical Galois theory to the Hopf-Galois theory and to present some study directions for the latter.

