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Galois theory is largely studied is several contexts. Starting from the classical theory, where the structures are eld extensions, several authors gave new approaches to the theory. using groups, groupoids, Hopf algebras, weak Hopf algebras and corings (cf. [3,7,13{20, 25{27,30,37]) usually acting on algebras.

Partial (co)actions of weak Hopf algebras: globalizations ...
Pre-history. Galois' theory originated in the study of symmetric functions – the coefficients of a monic polynomial are (up to sign) the elementary symmetric polynomials in the roots. For instance, $(x - a)(x - b) = x^2 - (a + b)x + ab$, where 1, $a + b$ and ab are the elementary polynomials of degree 0, 1 and 2 in two variables. This was first formalized by the 16th-century French ...

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Finitistic Dimension of Weak Hopf-Galois Extensions
Theorem 1.1 (Greither-Pareigis). Hopf Galois structures of L/K are in one-to-one correspondence with regular subgroups of Perm(X) normalized by λ(G). Moreover, if N is some such subgroup, the corresponding Hopf Galois structure is given by the K-Hopf algebra Le[N]G and its action over L defined by * $\sum_{i=1}^r c_i n_i.x + = \sum_{i=1}^r c_i n^{-1}i (1_G)(x)$

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