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Abstract. We develop Hopf-Galois theory for weak Hopf algebras, and recover analogs of classical results for Hopf algebras. Our methods are based on the recently introduced Galois theory for corings. We focus on the situation where the weak Hopf algebra is a groupoid algebra or its dual.

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Galois theory for weak Hopf algebras was developed by [7] using the language of corings which were introduced by Sweedler in [18]. Weak Hopf-Galois extensions were also studied in [3] and [10 ...

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**Abstract.** We develop Hopf-Galois theory for weak Hopf algebras, and recover analogs of classical results for Hopf algebras. Our methods are based on the recently introduced Galois theory for corings. We focus on the situation where the weak Hopf algebra is a groupoid algebra or its dual.

CiteSeerX [Galois theory for weak Hopf algebras](#)

Looking to examples of depth two, we establish that a Hopf subalgebra is normal if and only if it is a Hopf-Galois extension. We characterize finite weak Hopf-Galois extensions using an alternate Galois canonical mapping with several corollaries: that these are depth two and that surjectivity of the Galois mapping implies its bijectivity.

Galois theory for bialgebroids, depth two and normal Hopf ...

Hopf Galois theory: A survey 369 In the case of an  $H$ -action on  $A$ , we say a subspace  $V \subseteq A$  is  $H$ -stable if  $H \cdot V \subseteq V$ . Dually, if  $H$  coacts on  $A$ , a subspace  $V \subseteq A$  is  $H$ -costable if  $V$  is an  $H$ -subcomodule of  $A$ . Assume that  $H$  is finite-dimensional. If  $A$  is a right comodule algebra, then it is also a left  $H$ -module algebra, via  $f \cdot a = \sum (f \cdot a_i) a_i^{-1}$ .

Hopf Galois theory: A survey - MSP

Galois theory is largely studied in several contexts. Starting from the classical theory, where the structures are field 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.

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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 ...

Galois theory - Wikipedia

Hopf algebras arrived to the Galois theory of rings as early as the 1960s – independently of, but in fact similarly to, the way in which algebraic group schemes were introduced to the theory of étale coverings in algebraic geometry.

Galois Theory,

Galois Theory For Weak Hopf GALOIS THEORY FOR WEAK HOPF ALGEBRAS S.

CAENEPEEL AND E. DE GROOT Abstract. We develop Hopf-Galois theory for weak Hopf algebras, and recover analogs of classical results for Hopf algebras. Our methods are based on the recently introduced Galois theory for corings. We focus on the situation where the weak Hopf algebra is a groupoid algebra or its dual. GALOIS THEORY FOR WEAK HOPF ALGEBRAS - arXiv

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Galois theory for weak Hopf algebras was developed by [7] using the language of corings which were introduced by Sweedler in [18]. Weak Hopf-Galois extensions were also studied in [3] and [10] using the language of Hopf algebroids. Recall from Bohm et al. [4] that a weak Hopf algebra  $H$  is both a  $k$ -algebra  $(m; \cdot)$  and a  $k$ -coalgebra  $(\Delta; \cdot)$

## 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  $\text{Perm}(X)$  normalized by  $\Delta(G)$ . Moreover, if  $N$  is some such subgroup, the corresponding Hopf Galois structure is given by the  $K$ -Hopf algebra  $L_{\Delta[N]}G$  and its action over  $L$  defined by  $\sum_{i=1}^n x_i \cdot c_{i,1} + \sum_{i=1}^n x_i \cdot c_{i,2} \dots (1G)(x)$

## Hopf Galois module structure of dihedral degree $2p$ ...

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