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UnramDeg3 for GAP 4 ver.2019.09.26

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Needs: [GAP](#), version $\geq 4.8.7$; GAP package [HAP](#), version $\geq 1.11.15$;

Current version: [UnramDeg3-2019.09.26.zip](#) ([Hnminus1QoverZtoHnZfromResolution](#) in H3nr.gap was modified)

Old version: [UnramDeg3ver.2017.09.09.zip](#)

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URL:

<http://mathweb.sc.niigata-u.ac.jp/~hoshi/Algorithm/UnramDeg3/index.html>

<https://www.math.kyoto-u.ac.jp/~yamasaki/Algorithm/UnramDeg3/index.html>

Description

This code provides algorithms for computing unramified and stable cohomologies of degree 3 for fields of invariants.

Installation

Download [UnramDeg3-2019.09.26.zip](#) and unpack it to some folder , e.g. C:\Users*username*.

Then type "Read("H3nr.gap");" on GAP.

Documentation

H3nr [[.html](#), [.pdf](#)]

README [[.html](#), [.pdf](#)]

Content

UnramDeg3-2019.09.26.zip +- H3nr.gap +- H3nr.pdf +- README.txt +- README.pdf +- UnramDeg3-2019.09.26.pdf
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References

[HKY20] Akinari Hoshi, Ming-chang Kang and Aiichi Yamasaki, Degree three unramified cohomology groups and Noether's problem for groups of order 243, J. Algebra **544** (2020) 262-301. [ScienceDirect](#) Extended version: [arXiv:1710.01958](#).

[Pe08] Emmanuel Peyre, Unramified cohomology of degree 3 and Noether's problem, Invent. Math. **171** (2008) 191-225.

UnramDeg3 is a free software.

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