

Hilbert Symbols and Cohomology.

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Chinburg and Friedman [2] studied a distance function that associates an ideal class to two pairs of algebraic integers defining the same quaternion algebra under the Hilbert symbol map. In this work, we generalize this notion to higher Hilbert symbols and central simple algebras by giving a cohomological interpretation for this map.

References

- [1] Luis Arenas-Carmona, *Arithmetical Hilbert Symbols, Distance Maps and Cohomology*, Preprint.
- [2] T. Chinburg and E. Friedman, Hilbert symbols, class groups and quaternion algebras, *J. Th. Nombres Bordeaux* **12** (2000), 367-377.