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Connecting homomorphisms associated to Tate sequences

The Tate sequence is the result of a unification of local and global class field theory, and describes the cohomology of the S-units in a Galois extension of number fields. In the traditional construction, S was assumed to be large enough that the S-class-group was trivial. A refinement of Ritter and Weiss removed that assumption, so that their Tate sequence involved both the S-units and the S-class-group, giving rise to connecting homomorphisms not previously studied. We will provide the first descriptions of some of these connecting homomorphisms, and discuss some consequences.