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Invariant bilinear forms of algebras given by descent

The existence of a nondegenerate invariant bilinear form on a Lie algebra has important structural consequences (example: arbitrary versus symmetrizable Kac-Moody algebras). In this talk I will describe the structure of invariant bilinear forms of algebras given by faithfully flat descent, like for example Azumaya algebras, twisted loop Lie algebras or, more generally, multiloop algebras. The talk is based on joint work with A. Pianzola, D. Prelat and C. Sepp.