(NON-)COMMUTATIVE TERNARY (HOM-)NAMBU-POISSON ALGEBRAS

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Abstract: *The main purpose of this talk is to study non-commutative ternary Nambu-Poisson algebras and their Hom-type version. We explore twisting principles of (non-commutative) ternary Nambu-Poisson algebras along with an algebra morphism that lead to construct (non-commutative) ternary Hom-Nambu-Poisson algebras. Moreover, we provide construction results dealing with tensor product and direct sums of two (non-commutative) ternary Hom-Nambu-Poisson algebras. Furthermore, we give a 3-dimensional classification of non-commutative ternary Nambu-Poisson algebras.*