

Bi-HKT and quasicomplex bi-Kaehler geometries in N=4 sigma models

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Joint work with:

We present bi-HKT quantum mechanical sigma models in N=4 superfield formulation with ordinary and mirror linear (4,4,0) multiplets. Hamiltonian reduction of a generic reducible bi-HKT model is performed and we obtain quasicomplex bi-Kaehler quantum mechanical sigma models described by ordinary and mirror chiral (2,4,2) multiplets.