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Compatibility of Nijenhuis operators with various structures

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This is a report on recent results involving the compatibility of Nijenhuis operators with various structures (e.g. Poisson groupoids, Dirac Structures, Courant algebroids) by means of an associated connection-like object. An interesting application is the study of holomorphic structures via their underlying real objects. Also, the investigation of Nijenhuis structures compatible in a suitably sense with Courant algebroids leads to a (not fully understood yet) relation with Kähler geometry.

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