

HK/QK correspondence and the c-map

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The HK/QK correspondence associates a one-parameter family of quaternionic (pseudo-)Kähler manifolds to any (pseudo-)hyper-Kähler manifold with rotating Killing vector field (i.e. a Killing vector field that preserves one complex structure while rotating the other two). We consider examples of this correspondence with particular emphasis on quaternionic Kähler manifolds coming from the physicists' "c-map" construction.