

## GENERALIZED KÄHLER MANIFOLDS VIA MAPPING TORI

BEATRICE BRIENZA AND ANNA FINO

**ABSTRACT.** Starting from the product of a 3-torus and a compact Kähler (respectively, hyperKähler) manifold we construct via mapping tori generalized Kähler manifolds of split (respectively, non-split) type. In this way we obtain new non-Kähler examples and we recover the known examples of generalized Kähler solvmanifolds. Moreover, we investigate the formality and the Dolbeault cohomology of the generalized Kähler mapping tori.

## 1. INTRODUCTION

Generalized Kähler structures were introduced and studied by M. Gualtieri [21] in the context of N. Hitchin's generalized complex geometry [23]. From the physics point of view, they are the general solution to the  $(2, 2)$  supersymmetric sigma model [18].

A *generalized Kähler structure* on a  $2n$ -dimensional manifold  $M$  is given by a pair of commuting complex structures  $(\mathcal{J}_1, \mathcal{J}_2)$  on the vector bundle  $TM \oplus T^*M$ , which are integrable with respect to the (twisted) Courant bracket on  $TM \oplus T^*M$ , are compatible with the natural inner product  $\langle \cdot, \cdot \rangle$  of signature  $(2n, 2n)$  on  $TM \oplus T^*M$  and such that  $(\mathcal{J}_1, \mathcal{J}_2)$  is positive definite. A manifold  $M$  endowed with such a pair  $(\mathcal{J}_1, \mathcal{J}_2)$  is called *generalized Kähler manifold*.

By [21, 5] a generalized Kähler structure on a  $2n$ -dimensional manifold  $M$  can be also described as a triple  $(g, J_\pm)$  where  $g$  is a Riemannian metric on  $M$  and  $J_\pm$  is a pair of complex structures compatible with  $g$  and such that the following occurs

$$d_+^c \omega_+ = -d_-^c \omega_- = H,$$

where  $H$  is a closed 3-form on  $M$ ,  $\omega_\pm$  are the fundamental forms of  $(g, J_\pm)$  respectively and  $d_\pm^c$  are the real Dolbeault operator associated to the complex structures  $J_\pm$ . In particular, any Kähler metric  $g$  on a complex manifold  $(M, J)$  gives rise to a trivial generalized Kähler structure by taking  $J_+ = J$  and  $J_- = \pm J$ . The 3-form  $H$  is also called the torsion form of the generalized Kähler structure and it can be identified with the torsion of the Bismut (or Strominger) connection associated with the Hermitian structure  $(J_\pm, g)$  ([7, 19]). Clearly, if  $H \equiv 0$ , then the underlying manifold is Kähler.

In [23] N. Hitchin proved that if a complex manifold  $(M, J)$  has a generalized Kähler structure  $(J_\pm, g)$  such that  $J = J_+$  and  $J_\pm$  do not commute, then the commutator  $[J_+, J_-]$  defines a holomorphic Poisson structure on  $(M, J)$  and in this case, the generalized Kähler structure is called *non-split*. If the complex structures  $J_+$  and  $J_-$  commute, the generalized Kähler structure is said to be *split* since  $Q = J_+ J_-$  is an involution of the tangent bundle  $TM$ , which splits as a direct sum of the  $(\pm 1)$ -eigenspaces of  $Q$  ([5]).

A generalized Kähler structure on a smooth manifold  $M$  is said to be *split* if  $[J_+, J_-] = 0$  and *non-split* otherwise. A split generalized Kähler structure such that  $J_+ \neq \pm J_-$  is also called of *ambi-hermitian type*.

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# Generalized Manifolds

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