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Analytic continuations of $SU(2n)$-invariant Ricci-flat Kähler metric

Kähler manifold is $2n$-dimensional Riemannian manifold equipped with integrable complex structure. The manifold is called *Ricci-flat* if it has vanished Ricci tensor. In case of dimension four Kähler Ricci-flat manifold admits three covariantly constant complex structure and it is *hyperKähler* manifold. Present author constructed a family of Kähler Ricci-flat metrics for an arbitrary dimension $4n$ supposed that they are invariant under SU($2n$)-transformations. But these metrics are incomplete. Some analitic continuations will be presented.

Reference: Zuev S. V. A 4n-dimensional Kähler Ricci-flat metric. Proc. Int. Conf. "Geometrization of Physics III", Kazan State University. – October 1-5, 1997, Kazan, Russia. – To appear.