

Kähler metrics on complexified symmetric spaces

Roger Bielawski
Department of Mathematics
University of Glasgow
University Gardens
Glasgow G12 8QW, UK

Abstract

We develop the relation between G -invariant Kähler metrics on the complexification of a symmetric space of compact type G/K and K -invariant Riemannian metrics on the dual symmetric space G^*/K . In particular, we show that the complexification of G/K admits a G -invariant Kähler metric having a prescribed G -invariant exact Ricci form.