

## Chern-Einstein metrics on symplectic manifolds

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**Abstract:** Given a symplectic manifold  $(M, \omega)$  and a compatible almost-complex structure on it, the induced (almost-Kähler) metric  $g$  on  $M$  is said to be Chern-Einstein if there exists a real constant  $\lambda$  such that  $\rho = \lambda\omega$ , where  $\rho$  is the Chern-Ricci form of  $g$ .

We will discuss the existence of Chern-Einstein metrics on symplectic manifolds, focusing on a large class of non-Kähler examples given by adjoint orbits of semi-simple Lie groups. Part of presented results come from a joint work with Alice Gatti (LBNL).