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N-invariant geometry of Hermitian symmetric spaces

Abstract

We consider irreducible Hermitian symmetric spaces G/K with the action the unipotent group N arising from the Iwasawa decomposition NAK of G. The set AK/K intersects all N-orbits. We give a characterization of invariant plurisubharmonic functions and of invariant Stein domains in terms of the corresponding objects in AK/K (in collaboration with Andrea Iannuzzi).