



Colloquium del Departamento de Análisis Matemático

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**“On the codifferential of the Kähler form in
classical flag manifolds”**

Jueves 19 de febrero de 2015
a las 13:00 horas en el seminario 222

Abstract:

The first of all we present the necessary preliminaries to understand what is a flag manifold and we give some related results about these homogeneous spaces. On the other hand, in this talk we present a characterization of the cosymplectic metrics on the classical flag manifold $F(n)$. In order to do this we obtain a formula to calculate the codifferential of the Kähler form of the flag manifold. Using that formula we obtain our characterization of the cosymplectic metrics in terms of partial differential equations which must be satisfied by the functions that determine the metric on $F(n)$.

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