

Faculdade de Ciências da Universidade de Lisboa  
cmafcio@fc.ul.pt Tel. (+351) 21 750 00 27

## **SEMINÁRIO DE GEOMETRIA**

**Dia 4 de Março (sexta-feira), às 13H30, na sala 6.2.33**

### **A Minkowski-type inequality for convex surfaces in the hyperbolic 3-space**

**José Natário**

**(CAMGSD, IST, ULisboa)**

Abstract:

We derive a new Minkowski-type inequality for closed convex surfaces in the hyperbolic 3-space. The inequality is obtained by explicitly computing the area of the family of surfaces obtained from the normal flow and then applying the isoperimetric inequality. Using the same method, we also give elementary proofs of the classical Minkowski inequalities for closed convex surfaces in the Euclidean 3-space and in the 3-sphere.

*Seminário financiado por Fundos Nacionais através da FCT – Fundação para a Ciência e a Tecnologia  
no âmbito do projeto UID/MAT/04561/2013*