

SEMINARIO ARITMÉTICA Y GEOMETRÍA EN VALPARAÍSO

Fecha: Miércoles 8 de marzo 2017

Hora: 14:00-16:10

Lugar: Sala 2.2, IMA, PUCV

Expositor: **Cecília Salgado** (U. Federal do Rio de Janeiro (Brasil))



Título: Elliptic fibrations on $K3$ surfaces and linear systems of curves on rational surfaces

Resumen : Let X be an algebraic $K3$ surface endowed with a non-symplectic involution. We classify all elliptic fibrations on X under some hypotheses on the non-symplectic involution. The idea behind it involves transferring the classification problem to a "simpler" surface from the geometric point of view. In the first part of the talk I will cover the necessary background presenting definitions, examples, known results and motivating the problem. The second part will be dedicated to transferring the classification of elliptic fibrations on certain $K3$ surfaces to describing special linear systems on rational elliptic surfaces.

This is joint work with Alice Garbagnati (Milano).

<http://seminarioaritmeticaygeometria.wordpress.com/>

Auspicios

- Pontificia Universidad Católica de Valparaíso
- Universidad de Valparaíso