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SEMINAR  
on  
COMPLEX AND HYPERCOMPLEX ANALYSIS  
and  
OPTIMIZATION, GRAPH THEORY, AND COMBINATORICS  
and  
INVERSE PROBLEMS IN HEALTH SCIENCES

Sala Sousa Pinto (2<sup>o</sup> piso), Departamento de Matemática

16/11/2020, 14:30

## The Gross-Siebert program in Mirror Symmetry

Evgeny Goncharov  
University of Cambridge

I'll tell the story of the development of Mirror Symmetry emphasising the ideas crucial to the development of the Gross-Siebert program. We will cover the motivation, differential-geometric side (SYZ conjecture) and then introduce the main constructions of the Gross-Siebert program (giving an overview of the algebro-geometric basics if necessary). Time permitting, I will introduce my PhD research project focused on showing that the latest Gross-Siebert construction of the "Intrinsic mirror symmetry" paper generalizes the classic Batyrev-Borisov mirror construction.

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This seminar is supported by CIDMA - Center for Research and Development in Mathematics and Applications, and FCT - Fundação para a Ciência e a Tecnologia with references UIDB/04106/2020 and UIDP/04106/2020.

