

Seminari de Geometria Algebraica 2008/2009 (UB-UPC)

Divendres 5 de juny a les 15h. a l'aula B1

<http://atlas.mat.ub.es/sga>

Picard-Vessiot Theory and Jacobian Problem

Zbigniew Hajto

Universitat Jagiellona de Cracovia

In the talk we discuss the equivalence of various existing definitions of Picard-Vessiot extension for partial differential fields in zero characteristic and we give an equivalent statement of the Jacobian conjecture in terms of Picard-Vessiot extensions. Finally we point out differences and open questions related with the case of non-algebraically closed field of coefficients. Presented results are obtained in the collaboration with Teresa Crespo.
