

## FROM PROJECTIVE GEOMETRY TO COMPUTER GRAPHICS

## MÁRIA KMEŤOVÁ

**ABSTRACT.** In the lecture we will study the segment of geometry dealing with concept of infinity, the origin of the projective geometry and follow-through the way which leads to geometric modelling of special curves and surfaces in computer graphics.

**KEY WORDS:** point at infinity, projective geometry, curves and surfaces in CAGD

CLASSIFICATION: G10, G90

Received 1 May 2014; received in revised form 7 May 2014; accepted 16 May 2014

## Author's Address

doc. RNDr. Mária Kmeťová, PhD. Katedra matematiky, Fakulta prírodných vied, UKF v Nitre, Tr. A. Hlinku č. 1, SK – 949 74 Nitra; e-mail: mkmetova@ukf.sk

In. (Eds.) Šedivý, O., Švecová, V., Vallo, D., Vidermanová, K. Acta Mathematica 17: Proceedings of international conference 12th Mathematical Conference in Nitra, Department of Mathematics, Faculty of Natural Sciences, Constantine the Philosopher University in Nitra, Slovakia, June 19, 2014. Edition Prírodovedec No. 578. Nitra: CPU (2014). P. 9-14. ISBN 978-80-558-0613-6