DEPARTMENT OF GEOMETRY AND TOPOLOGY
INSTITUTE OF MATHEMATICS, VAST

SEMINAR ANNOUNCEMENTS

Time : 9 am, Thursday 09/04/2015
Venue: Room 4, Buiding A14, Institute of Mathematics, 18 Hoang
Quoc Viet, Hanoi

Speaker: Mutsuo Oka (Tokyo University of Science)
Title : **On the fundamental groups of non-generic $\mathbb{R}$-join-type curves**

Abstract: An $\mathbb{R}$-*join-type curve* is a curve in $\mathbb{C}^2$ defined by an equation of the form

$$a \cdot \prod_{j=1}^{\ell} (y - \beta_j)^{\nu_j} = b \cdot \prod_{i=1}^{m} (x - \alpha_i)^{\lambda_i},$$

where the coefficients a, b, α_i and β_j are *real* numbers. For generic values of a and b, the singular locus of the curve consists of the points (α_i, β_j) with $\lambda_i, \nu_j \geq 2$ (so-called *inner* singularities). In the non-generic case, the inner singularities are not the only ones: the curve may also have *'outer'* singularities. The fundamental groups of (the complements of) curves having only inner singularities are considered in [**?**]. In the present paper, we investigate the fundamental groups of a special class of curves possessing outer singularities.