

様式 2 帰国報告書 (ITP Research Report)

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Research Report of JSPS-ITP

(The international sending-elevating project for young mathematicians
based on singularity, topology and mathematical analysis: Hokudai model)

Name:

Name of ITP Partner Institute:

Institute of Mathematics of the Polish Academy of Sciences

Period of ITP-Stay:

2011/05/11 -- 2011/05/24

Research Report:

During my visit to Institute of Mathematics of the Polish Academy of Sciences, I attended two conferences.

The first conference is "School on Generic Singularity and Geometry" which was held in Warsaw. In this conference, I talked on homotopy classification of nanophrases and its application to the theory of curves on surfaces. This result is a part of my doctor thesis and accepted paper (See [1] and [2] for more details).

The second conference is "Workshop on Singularities in Geometry and Applications" which was held in Beđlewo. I heard many lectures in this conference and communicated with many resarchers. Since my major in mathematics is far from singularity theory, I do not have opportunity to hear lectures on singularity theory usualy. Therefore this conference was good for me to obtain new view points on my sutdy. I also talked my sutdy on the homotopy theory of nanophrases and the stable equivalence theory of curves on surfaces. Some of audiences gave me useful comments. Those comments will have good influence on my future research.

For the above-mentioned reasons I wish to express my gratitude deeply to the support of JSPS International Training Program (ITP).

[1] T. Fukunaga, Sutdy on the homotopy theory of phrases and its application to curves and links. Doctor thesis, Hokkaido University, May 2011.

[2] T. Fukunaga, Homotopy classification of nanophrases with at most four letters, to appear in Fundamenta Mathematicae.