

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)

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Period of ITP-Stay: July 9---21,2009

Research Report:

Due to the ITP project, I attended “A pre-workshop at the Banach Center from July 10th to 12th” and “Polish-Japanese Working Days at Kazimierz Dolny from July 13th to 19th”.

Firstly, I would like to write about 3 days I stayed in Warsaw. In Warsaw, I had a chance to give a lecture, so I talked about what I studied for about 20 minutes on Friday, July 10. The title of my talk was “The relation between Bass-Milnor-Wolf theorem on discrete nilpotent groups and Mitchell's measure theorem in subriemannian geometry.” In this lecture, I talked about continuity and discreteness, and especially explained the concept of Gromov-Hausdorff convergence. To put it plainly, this was the generalizations of next concept: I suppose here is the graph paper of scale 1. I vary this paper to one of scale 0.1, and as well vary this paper to one of scale 0.01. When I eternally repeat this operation, at last, I cannot distinguish their intersection points from points of the continuous plane. After my talk, one person asked me to let him know the bibliography by which the definition of Gromov-Hausdorff convergence was written.

Secondly, I would like to talk about 7 days I stayed at Kazimierz Dolny. I attended many lectures. When we went sightseeing together, I could make many friends. Especially, when we went on a sightseeing cruise, I wore a towel around my face because the sunlight was very hot and many mosquitoes were very noisy. It made many people laugh and they remembered my face and name after that, so I made friends with them. Finally, because I went abroad for the first time, there was much uneasiness. However, I was glad to go to Poland because I had a chance to meet many foreign people. I could also recognize the differences of the cultures between Japan and Poland and the difficulty to say what I want to say in English.