

(For JSPS Fellow)

Form B-5

Date (日付)

30/11/2016 (Date/Month/Year: 日/月/年)**Activity Report -Science Dialogue Program-**

(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): Henrik Bachmann (ID No. P16021)- Participating school (学校名): Mizusawa High School- Date (実施日時): 15/11/2016 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Hamburgers, Numbers and infinite Series(in Japanese) -

- Lecture summary (講演概要):

I started my talk by explaining the origin of the name "Hamburger" together with some information on my hometown Hamburg and Germany in general.

After a short introduction of myself I introduced some classical aspects of mathematics and especially the field I am working in, which is number theory.

For this gave an overview of different types of numbers such as natural numbers, integers, rational numbers, algebraic numbers and transcendental numbers. Here I also proved some basic statements together with the students.

I then talked about concept of infinite Series to introduce the so called Riemann zeta values. I explained some open problems in this area and also did some calculations together with the students. After that I tried to explain multiple zeta values, which generalize Riemann zeta values and which are of great interested by many japanese mathematicians.

In the end I explained why I think mathematics is the most creative, beautiful and most international subject you can study after high school by giving some details on my own research career and my research stays around the world.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 90 min (分), Q&A time (質疑応答時間) 20 min (分)

◆Lecture style (ex.: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))

Used projector together with the board.

◆Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by

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yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

I came by myself and had help of a japanese english teacher. I also used some Japanese.

◆Name and title of accompanied person (同行者 職・氏名)

None

◆Other note worthy information (その他特筆すべき事項):

- Impressions and opinions from accompanied person (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):