

(For JSPS Fellow)

Form B-5

Date (日付)

2013/11/05 (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): Khalaidovski Aleksandr Markovic (ID No. PE13002)

- Participating school (学校名): Niigata Municipal Bandai Senior High School

- Date (実施日時): 18/10/2013 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English)

Physics and Gravitational Waves – Study and Research in Germany and Japan

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

In my lecture, I have explained to the students what they will learn in a university if they enrol in physics. I have shown them how the every day's life at the university deviates from what they are used to in school. Also, I explained why it is highly interesting to study physics, for themselves as well as for our society. In the second part of my lecture I have provided an introduction to the field of experimental gravitational wave research, explaining why it is of high interest to finally realize a gravitational wave astronomy.

In particular, the Japanese KAGRA project that is currently being constructed, has several unique features which can not be found anywhere else in the world. While several gravitational wave observatories already exist in the USA, Italy and Germany, and one more is planned to be built in India, KAGRA will be the only one to use cryogenic temperatures. This way the Japanese project will lead way to futute generations of observatories planned elsewhere not earlier than 2025. It is very important to motivate highly intelligent students as soon as possible to study physics and then to join our work, or other leading Japanese physics research.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 45 min (分), Q&A time (質疑応答時間) 5 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))

PowerPoint presentation shown using a projector. During the lecture interacting with the students via Q/A. A summary handout with my contact data was distributed, I have encouraged the students to contact me any time if they have any questions.

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

Prof. Shinji Miyoki kindly assisted with summing-up interpretations

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

Prof. Shinji Miyoki

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

Prof. Miyoki expressed a very positive opinion about the lecture. He highlighted the fact that the students were listening very intently and have shown high interest in the lecture.