

(For JSPS Fellow)

Form B-5

Date (日付) 22/2/2016

(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): Sujoy Kumar Modak (ID No. P15021)
- Participating school (学校名): Akita Prefectural Yokote Seiryō Gakuin High School (Yokote-city, Akita)
- Date (実施日時): 09/2/2016 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Black Holes and Quantum Mechanics
(in Japanese)

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

I start my lecture by introducing myself and my Country, India. I presented a brief discussion on the geographical, cultural and biological diversity of India. Some words about my motivation to become a Physicist and various exciting and challenging aspect for me as a researcher was followed after that. I introduced the basic framework of Physics in dealing with large and tiny objects, as provided by the framework of Classical and Quantum Mechanics. I mainly used their knowledge of Newton's law to establish the necessity and usefulness of Quantum Mechanics. Then I introduced black holes and it appeared that many of them had heard about "black holes" before. I explained how they are formed and why they play an important role for our understanding about the Universe. Finally, I discussed my research topic of information loss problem in black holes and its importance to deeper understanding of the quantum theory.

- Language used (使用言語): English (by me), Japanese (by my accompanying person Mr. Lee, in the question answer session)

- Lecture format (講演形式):

◆Lecture time (講演時間) 80 min (分), Q&A time (質疑応答時間) 25 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))

Projector only _____

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

Must be typed

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))

Yes, Assistance was offered by my accompanying person _____

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

Mr. Jaeha Lee, Ph.D Student, KEK Theory Center _____

◆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。):