

(For JSPS Fellow)

Form B-5

Date (日付)

(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 ) :  
(ID No. P11787 )

- Participating school (学校名) : Zuiryo High school

- Date 11/7/2012 ( 実 施 日 時 ) :  
(Date/Month/Year: 日/月/年)

- Lecture title (講演題目) : Gravity from satellites to atoms: a short story of String Theory

- Lecture summary (講演概要) : Please summary your lecture 200-500 words.  
First I have introduced my own Country and Town. Then I have discussed what I think are the qualities necessary for becoming a scientist and what you should expect in case you will follow this road.

Next I have tried to introduce in an as easy as possible way the idea of String Theory. To justify it I have talked about the problem of unifying General Relativity with Quantum Mechanics, and compared the problem to the equivalent situation in Electromagnetism.

In particular I have tried to explain the concept behind the uncertainty principle and why it clashes with the classical understanding we have for electromagnetism and gravity.

Finally I have introduced String Theory as a solution to the problem and discussed its many incredible predictions and the possibility that one day we can really observe them.

- Language used (使用言語) : English

- Lecture format (講演形式) :

◆Lecture time (講演時間) 70 min (分), Q&A time (質疑応答時間) 40 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

◆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)) I gave the lecture in english, then a japanese student who accompanied me gave a short summary of some key points in japanese. Questions were English-Japanese mixed

◆Name and title of accompanied person (同行者 職・氏名) Imai Takumi , student of the Master degree at YITP

◆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。)