

(For JSPS Fellow)

Form B-5

Date (日付) 16/07/2013

(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 ) :  
Lee, Shiu-Hang (ID No. P 13018 )

- Participating school (学校名) : Ishikawa Prefecture Nanao High School

- Date ( 実 施 日 時 ) :  
11/07/2013 (Date/Month/Year:日/月/年)

- Lecture title (講演題目) : The Extreme Universe (in English)

(in Japanese)

- Lecture summary (講演概要) : Please summary your lecture 200-500 words. Our universe is never as calm as it seems as we look up the quiet translucent sky at a clear night. Every now and then, exotic and beautiful phenomena are occurring at some corner in outer space, which can generate almost inconceivable amounts of energy. Supernovae (violent explosions of dying massive stars), jets from supermassive black holes, rapidly rotating neutron stars, and shock waves of gas moving at supersonic speeds are a few good examples. These 'cosmic accelerators' can boost particles to energies far beyond those we can produce on earth in the form of 'cosmic-rays'. An arsenal of powerful telescopes, both on ground and onboard satellites above the atmosphere, are continuously discovering a host of new and more powerful cosmic accelerators, and are gradually uncovering how they actually work. In this lecture, I will introduce the exciting field of high-energy astrophysics, in which people try to understand the universe in its extreme manifestation using cutting-edge physics, observatories and computer simulations.

- Language used (使用言語) :  
Japanese, 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) 30 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))

プロジェクター使用による講演

◆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))

講師本人による日本語説明

◆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) :

None.

- 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。) :