

Activity Report of the NAOJ Visiting Scholar Program

Host Project/Division: Hinode Science Center Name of Host Scientist: Y. Suematsu

Name of Visiting Scholar: Han Uitenbroek

Title: Visiting Professor, ~~Visiting Associate Professor~~, ~~Visiting Research Fellow~~

(Choose the appropriate one)

Period: from YY/MM/DD to YY/MM/DD from 7 April 2014 to 16 May 2014

I. Report from the visiting scholar

[i] Achievement during the period of stay (in comparison with the initial plan)

(Collaborative Research)

- Work with Dr. Patrick Antolin on “Evidence for resonant absorption of transverse oscillations and associated heating in a solar prominence”, paper about to be submitted.
- Work with Dr. Yoshinori Suematsu on three-dimensional formation of the G band towards the solar limb
- Work with Dr. Ryoko Ishikawa on Resonant scattering polarization in the Lyman alpha line
- Work with Dr. Yukio Katsukawa on choice of spectral lines for Solar C

(Education)

- Course radiative transfer and use of RH transfer code at NAOJ: Apr 21 - 24, 2014
- Seminar on “Three-dimensional effects in solar irradiance modeling” at NAOJ: Apr 18 2014
- Seminar on “Three-dimensional effects in solar irradiance modeling” at Kyoto Univ, May 8, 2014
- Seminar on “Non-LTE Radiative Transfer with PRD” at ISAS, May 14, 2014

(Others)

Talked with many students and staff members about their current research at Mitaka, Kyoto Univ., and ISAS. Visited the Hida solar observatory and talked with students and staff there.

[ii] Any comments on this program

The opportunity to take part in this program was greatly appreciated and I am very thankful for this. Students and staff at all the locations that I visited were very eager to talk with me and this made my visit both a joy and scientifically productive. I would also like to take the opportunity to thank my host, Dr. Yoshinori Suematsu for all his help and dedication to making this visit possible and very pleasant as well as productive.

[iii] List of publications and presentations by the visiting scholar in collaboration with NAOJ staff or graduate students

“Evidence for resonant absorption of transverse oscillations and associated heating in a solar prominence” with Okamoto, Antolin, De Pontieu and Van Dorsselaere

II. 以下の項目について、受入教員が記入してください。

Report from the host scientist

[iv] 本制度に対する意見、要望など

Any comments on this program

外国人客員研究員の受入れシステムは、当太陽研究分野にとって、研究・教育両面に置いて毎回非常に有意義な結果をもたらしています。これに関わっておられる全ての天文台スタッフの皆様の、実現のための行き届いた配慮に感謝します。一点、所得税や特に今回、社会保障の免除手続きにはいつも苦劳してします。事前にわかっていることなので、招待状を出すときに、免除が適用できる場合には必要な情報を一緒に出して頂ければと思います。諸外国太陽関係研究者の間では、国立天文台の外国人客員教授・研究員というのは、非常に名誉なステータスとなっている点、付記しておきます。