

Activity Report of the NAOJ Visiting Scholar Program

Host Project/Division: Hinode Science Center Name of Host Scientist: Yukio Katsukawa

Name of Visiting Scholar: Prof. Jeffrey Kuhn

Title: Visiting Professor,

(Choose the appropriate one)

Period: from 14/05/27 to 14/06/20 and 14/09/11 to 14/09/20

I. Report from the visiting scholar

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

(Collaborative Research)

Important discussion with the CLASP experiment began. The possibility of combining permitted line linear polarization (He) and IR FeXIII measurements from my observatory with CLASP will be explored. Initial discussion with the helioseismology groups at NAOJ and UT to understand new low-frequency limb modes were begun. Discussion of possible future solar instrument opportunities with DKIST and US collaborators was begun.

(Education)

A total of 5 lectures were give (including at UT) on subjects ranging from HMI limb oscillations to new spectropolarimetry techniques for solar magnetometry. In addition I gave a seminar with the TMT group on large telescope technologies

(Others)

Useful and private discussion with the Subaru group on coronagraphy with large telescopes may prove helpful.

[ii] Any comments on this program

I appreciate the chance to work in Japan. It was helpful to understand the solar projects (like CLASP) and the research activities of NAOJ students. Additional contact and understanding of the current solar research activity with UT scientists was also important. I'm sorry that it was not possible to interact more with the Kyoto solar program.

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

No collaborative publications have been submitted. It is likely that CLASP and SOLARC (Haleakala telescope) results will be forthcoming

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

多くの講義・セミナーをやって頂き、また、現在我々のグループで開発・検討中の CLASP、SOLAR-C について、科学的技術的な観点で有意義な議論ができ、今後の共同研究、共同開発への足がかりができた。途中、京都大学への出張が先方の都合でキャンセルになり、旅費の返金などが発生したが、問題なく対応することができた。再入国許可を取得するため入管に行く必要があったが、サポートデスクの毛利氏にヘルプ頂いたのは大変助かった。

1-2 ヶ月の期間、外国人客員教員として滞在される場合、日本の銀行口座を開設しないため、現金で給与を受け取るようにしていた。多額の現金を持つのを避けたいという要望が毎回出る。日本滞在のために、現金は必要だが、給与を国外の銀行口座に直接振り込むなどして頂けると大変ありがたい。