

滞在型研究員報告書
Activity Report for the NAOJ Visiting Fellows Program

所 属 (Institution)	Los Alamos National Laboratory / Rice University
氏 名 (Name)	Shangfei Liu
研究課題名 (Research subject)	The Compositional Diversity of Low-Mass Planets via Giant Impacts Inside and Beyond the Solar System
滞在期間 (Period of stay)	2016 年 1 月 3 日～ 2016 年 1 月 17 日 YYYY MM DD YYYY MM DD
受入責任者氏名 (NAOJ host researcher)	Yasunori Hori

<p>1. 滞在型研究員として国立天文台滞在中に行った活動について簡単にお書きください。 (Summarize your activities during the stay using the NAOJ Visiting Fellows Program.)</p> <p>I mainly visited Prof. Yasunori Hori to continue our ongoing research projects. I also attended mini-workshops on exoplanets and <i>N</i>-body simulations organized by Prof. Hori at NAOJ. During my stay , I had opportunities to meet with many researchers and students at NAOJ. Meanwhile, I attended the 4th ELSI International Symposium at Tokyo Institute of Technology.</p>
<p>2. 今回滞在型研究員として得られた成果について簡単にお書きください。 (Summarize your research products from the stay.)</p> <ol style="list-style-type: none"> Future works on the Uranus-Neptune dichotomy and the Earth-Moon system with giant impact simulations. Comparison of giant impact simulations between grid and SPH methods. Parallelization of the Bulirsch-Stoer method in <i>N</i>-body simulations.

様式 2 (Form 2)

3. この制度について何か御意見がありましたら、お書きください。

(Please provide any comments about this program.)

This visiting fellow program provided me a great opportunity to conduct research and meet people at NAOJ. I had adequate support during my stay. The staff were very friendly and helpful. Overall, our collaborative research projects will benefit from my visit and some potential projects were discussed as well.