

P54a **Subaru Strategic Exploration of Exoplanets and Disks with HiCIAO/AO188 (SEEDS): Targets and status report**

田村元秀、白田知史、高見英樹 (国立天文台)、山田亨 (東北大学)、神鳥亮、鈴木竜二、森野潤一、工藤智幸、日下部展彦、眞山聡、Pyo, T.-S.、齋藤弘雄、石井未来、成田憲保 (国立天文台)、葛原昌幸 (東大)、松尾太郎 (阪大)、高見道弘 (ASIAA)、橋本淳 (総研大)、佐藤文衛 (東工大)、日置智紀 (神戸大)、岡本美子、百瀬宗武 (茨城大)、E. Turner、M. McElwain、J. Knapp、A. Moro-Martin (プリンストン大)、後藤美和、J. Carson、M. Janson (MPIA)、塩谷圭吾、片坐宏一 (JAXA)、SEEDS team

Since the first detection of exoplanets orbiting normal stars in 1995, many exciting discoveries have been made, but our understanding of planetary systems and their formation is far from complete. Armed with a much better performance than that of the CIAO-AO36 combination, our main purpose is to conduct the Subaru-HiCIAO-AO188 imaging survey as a Subaru Strategic Observation, searching for giant planets ($1 M_J < \text{mass} < 13 M_J$) as well as protoplanetary/debris disks at a few to a few tens of AU region around 500 nearby solar-type or more massive young stars after performance certification. As demonstrated with recent successes of direct imaging of planetary mass objects around Vega-type A stars, direct imaging is indispensable for the detection of such “young” planets, especially planets beyond the snowline (4-40AU), which is complementary to radial velocity searches. We have conducted a thorough target selection during the last half year. In this talk, we will outline our goal, target selection processes, and expected results. A full list of the current SEEDS member (87 people from 24 institutes) can be found on our web site.