Collaborative Research at Stanford University

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From Dec. 12, 2018 to Jan. 26, 2019, I joined Zhi-Xun Shen group at Stanford University as a visiting student, to participate the ALPS Oversea Dispatch supported by the Graduate Research Abroad in Science Program (GRASP) at Graduate School of Science, University of Tokyo. Stanford University is one of the most distinguished universities in the world with a super beautiful campus, as we can see from the attached Fig. 1.

During this short stay, I took part in many scientific seminars and discussions with outstanding scholars at Shen group and the Stanford Institute for Materials and Energy Sciences. More importantly, I conducted two experimental measurements, targeting on the temperature evolution of the band structure of high temperature superconductor Bismuth strontium calcium copper oxide, at the beamline 5-2 of Stanford Synchrotron Radiation Lightsource at Stanford Linear Accelerator Center (SLAC, Fig. 2)—a state-of-the-art angle-resolved photoemission spectroscopy (ARPES) endstation. As a collaborative research, we are now summarizing the ARPES data and writing a paper together.

I am grateful for all the help from my previous supervisor Prof. A. Fujimori, current supervisor Prof. T. Kondo at University of Tokyo, as well as Prof. ZX. Shen, Staff Scientist M. Hashimoto, and all the members in Shen group at Stanford University. I would like to thank to the supportive GRASP and ALPS program.

Fig. 1, Stanford University

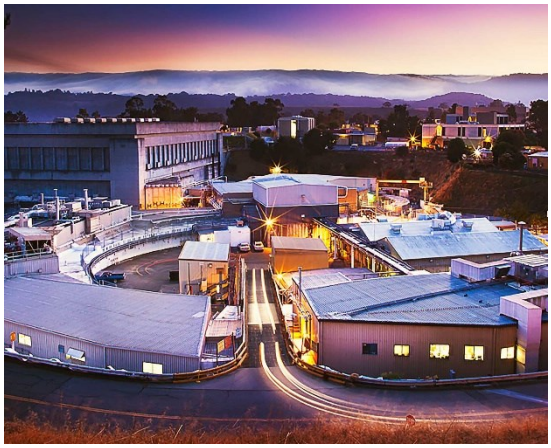

Fig. 2, SLAC Laboratory