

In recent year, the progress of laser technology has made the measurement of angle-resolved photoemission (AR-PES) possible with laboratory laser source. Previously, the measurement of AR-PES has been only possible with use of UV lamps or synchrotron radiation source, which limit the quality or the use of the technique. As the AR-PES has been recognized as a powerful technique for probing surface electronic structures, many laboratories around the world have been developing the laser-based AP-PES set up and utilizing the technique to investigate exotic properties of new emerging materials, such as topological insulator or strongly correlated systems.

Prof. Mun is highly interested in the development of the laser-based AR-PES and his research interest is to promote this technique to further into surface *operando* analysis tool. Prof. Mun will participate in the experiment of the AR-PES system that Prof. Hricovini successfully installed at the University of Cergy-Pontoise and see how this innovative technique can be further applied to identify the correlation between surface chemical properties and surface electronic structure under reaction condition.