

Global Fitting and Machine Learning in Taiwan

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I visited Academia Sinica in Taiwan to learn how to do global fitting in the theoretical physics. The host researcher was Yue-Lin Sming Tsai. From Nov 18th to Dec 1st, He gave me some lectures about basics of the statistics and Markov chain Monte Carlo (MCMC) method. After the lectures, I tried to do some simple fitting example with using some MCMC tools.

During the visit, I had a seminar talk at NCTS in National Tsing Hua University. After the talk, I talked the researchers in NCTS and went to dinner together.

In addition to MCMC, he mentioned that the machine learning technique with using neural network would play an important role in theoretical physics and I learned how to use the major package of machine learning, TensorFlow and Keras.

In the last part of the visit, we discussed our collaboration plan in the near future with using global fitting and machine learning.

Sming, the reserachers in NCTS and all of the Taiwanese people I met were so kind that my life in Taiwan was nothing but one of the best experience as a ALPS student.

