

# MINI WORKSHOP 1 :

## WORKSHOP ON TOTAL SCATTERING AND PAIR DISTRIBUTION FUNCTION ANALYSIS: PDF DATA ACQUISITION, REDUCTION, AND ANALYSIS AT TPS19A

X 光全散射實驗暨原子成對分佈函數分析研討會：  
TPS19A 之 PDF 數據擷取與分析

Date: September 3  
Time: 15:20 ~ 17:40  
Place: A300



Bo-Hao Chen ( 陳柏豪 ) & Yu-Chun Chuang ( 莊裕鈞 )

|                     |                                                                                                                                                          |                                                                     |                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------|
| 15:20<br> <br>16:00 | XRD to PDF<br>Similarity, difference                                                                                                                     |                                                                     | Yu-Chun Chuang |
| 16:00<br> <br>16:40 | How TPS 19A<br>perform PDF<br>measurement                                                                                                                | data acquisition<br>(P1/P2, OSS8), (28.5 keV, 22.13 keV)            | Bo-Hao Chen    |
|                     |                                                                                                                                                          | data reduction<br>(OSS, PDFgetx3, PDFgetx2)                         |                |
|                     |                                                                                                                                                          | data analysis<br>(PDFfit, GSAS-II(RMC, fullrmc),<br>PDF in a cloud) |                |
| 16:40<br> <br>17:10 | Case study (Ni, 660c, CeO <sub>2</sub> , TempD-AuO <sub>3</sub> , domain size_AuO <sub>3</sub> ,<br>LiqGa, dopant(CeO <sub>2</sub> , LaB <sub>6</sub> )) |                                                                     | Yu-Chun Chuang |
| 17:10<br> <br>17:40 | Discussion<br>(user sample systems, beamtime request)                                                                                                    |                                                                     | Yu-Chun Chuang |



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