

An Introductory Course to Three-Dimensional Electron Diffraction

Stockholm University, April 12th – 15th 2021

Lecturers:

- Prof. Xiaodong Zou, *Stockholm University*, Sweden.
- Dr. Tom Willhammar, *Stockholm University*, Sweden
- Dr. Hongyi Xu, *Stockholm University*, Sweden
- Dr. Zhehao Huang, *Stockholm University*, Sweden

All time shown in Central European Time (CET).

Monday, April 12 th	
14.00	Welcome and Introduction to the Course
14.10	Lecture 1: Introduction to three-dimensional electron diffraction (Prof. Xiaodong Zou)
14.50	Discussion
15.00	Coffee break
15.15	Lecture 2: Theoretical background of electron diffraction (Dr. Tom Willhammar)
15.55	Discussion
16.05	Coffee break
16.20	Lecture 3: Theoretical background of electron diffraction (Dr. Tom Willhammar)
17.00	Discussion
17.20	Finish Day 1
Tuesday April 13 th	
14.00	Demonstration 1: 3DED data collection (Dr. Tom Willhammar)
15.30	Discussion
15.50	Coffee break
16.10	Demonstration & practice 2: 3DED data processing (Dr. Hongyi Xu)
17.40	Discussion
18.00	Finish Day 2
Wednesday April 14 th	
14.00	Demonstration & practice 3: Structure solution (Dr. Hongyi Xu)

15.30	Discussion
15.50	Coffee break
16.10	Demonstration & practice 4: Structure refinement (Dr. Hongyi Xu)
17.40	Discussion
18.00	Finish Day 3
Thursday April 15th	
14.00	Lecture 4: Data accuracy (Dr. Zhehao Huang)
14.40	Discussion
14.50	Coffee break
15.10	Demonstration & practice 5: Improving data quality (Dr. Zhehao Huang)
16.00	Discussion
16.10	Coffee break
16.30	Open discussion (Dr. Tom Willhammar, Dr. Hongyi Xu, Dr. Zhehao Huang)
18.00	Finish Day 4

*In the practical sessions, the participants use their computers for data processing.