

# 1<sup>st</sup> Advanced Plasma Course

Arab Academy for Science, Technology & Maritime Transport, PortSaid  
25 – 30 January 2025



Prof. Dr. Waleed Moslem  
Port Said University  
The British University in Egypt

Prof. Dr. Mohamed Fahmy  
Arab Academy for Science,  
Technology & Maritime Transport

Day 1: Saturday, 25 January 2025

Time	Wave Stability Technique	Speaker
09:00 – 10:00	Physical Motivation	Waleed Moslem
10:00 – 12:00	Theoretical Insight	Ibrahim Elkamash
12:30 – 12:30	Break	
12:30 – 04:00	Analytical & Numerical Analysis	Eslam Soltan & Ahmed Gomaa

Day 2: Sunday, 26 January 2025

Time	Reductive Perturbation Technique	Speaker
09:00 – 10:00	Physical Motivation	Waleed Moslem
10:00 – 12:00	Theoretical Insight	Ibrahim Elkamash
12:00 – 12:30	Break	
12:30 – 04:00	Analytical & Numerical Analysis	Ahmed Gamal & Ahmed Abdelkader

Day 3: Monday, 27 January 2025

Time	Multiscale Perturbation Technique	Speaker
09:00 – 10:00	Physical Motivation	Waleed Moslem
10:00 – 12:00	Theoretical Insight	Ibrahim Elkamash
12:00 – 12:30	Break	
12:30 – 04:00	Analytical & Numerical Analysis	Nora El-Shafeay & EgyPlasma team

Day 4: Tuesday, 28 January 2025

Time	<b>Pseudopotential Technique</b>	Speaker
09:00 – 10:00	Physical Motivation	Waleed Moslem
10:00 – 12:00	Theoretical Insight	Ibrahem Elkamash
12:00 – 12:30	Break	
12:30 – 04:00	Analytical & Numerical Analysis	Abdullah Ghallab & EgyPlasma team

Day 5: Wednesday, 29 January 2025

Time	<b>Self Similar Technique</b>	Speaker
09:00 – 10:00	Physical Motivation	Waleed Moslem
10:00 – 12:00	Theoretical Insight	Ibrahem Elkamash
12:00 – 12:30	Break	
12:30 – 04:00	Analytical & Numerical Analysis	Waleed Moslem & EgyPlasma team

Day 6: Thursday, 30 January 2025

Time	<b>Open Questions in Plasma Physics</b>	Speaker
09:00 – 10:00	Recent Research Ideas in Plasma Physics	Waleed Moslem
10:00 – 12:00	Open Questions in Corona Heating and Solar Wind	Ibrahem Elkamash
12:00 – 12:30	Break & Closing	