



# CERTIFICATE OF PARTICIPATION

**TMREES INTERNATIONAL CONFERENCE**  
TECHNOLOGIES AND MATERIALS FOR RENEWABLE ENERGY,  
ENVIRONMENT AND SUSTAINABILITY

— THIS DIPLOMA IS PROUDLY PRESENTED TO —

Sabah Ali Hussein and Thair Abdulkareem Khalil Al-Aish

Numerical Simulation of the Undulator Gap Effect on the Spectral Tuning Range of a Free  
Electron Laser

**Speaker: Thair Khalil Al-Aish**

*Affiliation: University of Baghdad*

*In recognition of valuable participation and presentation at the  
TMREES26 International Conference on Technologies and Materials for  
Renewable Energy, Environment and Sustainability.*



n° 0426.88

BEIRUT, LEBANON  
16 – 18 APRIL 2026

Prof. Chafic Salamé  
GENERAL CHAIR - TMREES