



People's Democratic Republic of Algeria  
Ministry Of Higher Education and Scientific Research  
Constantine 1, frères Mentouri University  
Faculty of Exact Sciences



The First International Conference of Chemistry and Physics:  
Two disciplines, a unified vision of matter. 1<sup>st</sup>-ICCP 2025  
December 14-15, 2025. Constantine, Algeria

## CERTIFICATE OF ATTENDANCE

The scientific committee of 1st-ICCP 2025 certifies that:

**ABDELMADJID Zahra**

has attended the congress with a poster presentation entiteled:

**Cluster Approach to Ising-Type Model for Spin Crossover Systems with Ferromagnetic and Antiferromagnetic interactions**

Co-authors are respectively: **Abboud Metatla**

**Chairman of the Conference**  
**Prof. Mahfoud DJEZZAR**

**Dean of Exact Sciences Faculty**  
**Prof. Nadir BELLEL**

