



LMAP

LABORATORY OF
MATHEMATICS AND
APPLIED PHYSICS
المدرسة العليا للأستاذة - بوسنادة
ENS-BOUSAADA

Ministry of Higher Education and Scientific Research
Higher Normal School of Bou Saada
Department of Science Physics and Laboratory
of Mathematics and Applied Physics



CERTIFICATE OF PARTICIPATION

The Organizing Committee of the Second National Conference on Physics and its Applications
(20 Novembre 2025) is pleased to award this certificate to :

Sihem Menassel

in recognition of her active participation in the conference with an poster presentation
entitled: " Theoretical study of the mechanism of the cycloaddition of 2-
Chloroquinoline- 3-carbaldehyde with o-aminophenol, o-aminothiophenol and o-
phenylenediamine "

Co-author: Nabila Benabila, Souheyla Chetioui

