



People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
University of Mohamed El Bachir El Ibrahimi - Bordj Bou Arreridj - Algeria Faculty of
Sciences and Technology
Department of Matter Sciences
Laboratory of Materials Physics, Radiation and Nanostructures



CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

BELKACEM Karima

has participated in the national seminar entitled :

“2nd NATIONAL SEMINAR OF PHYSICS, CHEMISTRY AND THEIR APPLICATIONS (NSPCA'25)”

which has been held in the Faculty of Sciences and Technology, UNIVERSITY OF MOHAMED EL BACHIR EL IBRAHIMI of Bordj Bou Arreridj, Algeria. February 17th -18th, 2025.

Paper Title: A Electronic Properties of Wurtzite $Ga_{1-x}yIn_xAl_yN$ Quaternary Alloys

Presentation Type: **Poster**

Co-Authors: Bouhafs Bachir



Chairman of NSPCA'25
Dr. Samra AMAMRA

NSPCA' 25 CHAIRMAN
SAMRA AMAMRA



HEAD OF THE LABORATORY
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