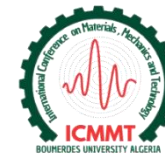




**ALGERIAN REPUBLIC DEMOCRATIC AND POPULAR
UNIVERSITY OF M'HAMED BOUGARA BOUMERDES
FACULTY OF TECHNOLOGY**



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CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

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**AB INITIO PREDICTION OF THE STRUCTURAL, ELECTRONIC AND OPTICAL PROPERTIES OF THE
QUATERNARY SEMICONDUCTORS $\text{Li}_2\text{HgSiS}_4$**

Co-authors: Khadidja. Berarma¹, *, Samia Yousfi², Amina. Raghdli³.

Signature



Prof. LECHEB Samir
**President of Organizing
Committee**