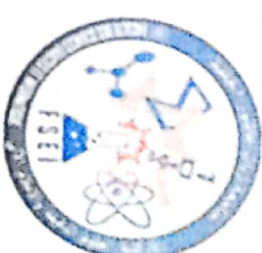




People's Democratic Republic of Algeria
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Department of Matter Sciences



CERTIFICATE OF PARTICIPATION

N°: CP-014

THIS IS TO CERTIFY THAT

DR.FATHI MESSAOUDI

PARTICIPATED IN THE FIRST NATIONAL CONFERENCE ON MATTER SCIENCES

NCSM2023 (Presental and online) 20 DECEMBER 2023 DJELFA-ALGERIA with **POSTER** communication
entitled: Structural, optical and photoluminescence Properties of pure ZnO and Mn-Doped ZnO Thin Films
Grown by Sol-Gel Spin Coating Deposition.

Co-authors: Fathi MESSAOUDI, Noudjoud LEBGA, Elhadj BENREZGUA, Rabie AMARI, Bahri
DEGHFEL, Abdelhalim KAHOU

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20 DECEMBER DJELFA-ALGERIA

Dr. AISSAOUI Reggadine
President of The
First National Seminar
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Handwritten signature and stamp of the organizing committee.

