

Certificate of participation

This is to certify that: **HERAIZ Toufik**
Has participated as "Poster presenter" and presented the following paper entitled
"On the v -continuity of the essential spectrum of 3×3 block operators matrices."

during the

Third National Mathematics Seminar 2022

held on Thursday, May 26, 2022
at the Freres Mentouri University,
Constantine 1 – Algeria.



<http://seminars.labomam.net/>



Chairman: Dr. Khaled BESSILA
Head of Applied Mathematics
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