

ICAGA 26 PROGRAM

SESSION 3: MATHEMATICAL PHYSICS

Room 2 Bloc 2

Tuesday, May 19th, 2026	
Chairman : Samira ZAHAR	
13h30-13h50	<p>Nadjiba FOUKROUN, USTHB,</p> <p><i>On a problem of two immiscible fluids flows</i></p>
13h50-14h10	<p>Souad CHENTOUT, USTHB,</p> <p><i>Eigenvalue criteria for existence and nonexistence of positive solutions for fractional differential equations of order $2 < \alpha < 3$ on the half line</i></p>
14h10-14h30	<p>Badri BENHARRAT, Bejaia University</p> <p><i>Existence and multiplicity of positive solutions for fourth-order boundary value problems</i></p>
14h30-14h50	<p>Dalila MESSAI, USTHB,</p> <p><i>On p-adic differential operator</i></p>
14h50-15h10	<p>Kaouther BOUCHAREF, Mohamed El Bachir El Ibrahimi University</p> <p><i>Qualitative and bifurcation analysis of a reversible quartic polynomial differential system</i></p>
15h10-15h30	<p>Teqwa BOUGUETTOUCHA, Mohamed El Bachir El Ibrahimi University of Bordj Bou Arréridj,</p> <p><i>Curvature invariants and geometric characterization of Hopf bifurcation in planar dynamical systems</i></p>
15h30 Coffee Break	
Chairman Karima MEBARKI	
15h50-16h10	<p>Hadjer ZERIMECHE, Constantine 1-Mentouri University</p> <p><i>Analyzing dynamics of the modified Gardner equation: Lie symmetry, bifurcation, chaos and multistability analysis</i></p>
16h10-16h30	<p>Ammar Melik, Mohamed Khider University</p> <p><i>Global dynamics and memory-driven diffusion in semilinear nonlocal models of Mathematical physics</i></p>