

Preliminary group classification on Asymmetric wave propagation in Reaction-Diffusion-Convection System

Conny Molatlhegi Adams¹, Jacob Manale²

¹ Department of Mathematics and Statistics, Tshwane University of Technology
adamsbcm@tut.ac.za

² The Department of Mathematical Sciences, University of South Africa
manaljm@unisa.ac.za

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We use Lie's symmetry approach through corrected Euler's method for preliminary group classification[1],[2] of the Convection-induced instability in reaction system producing of oscillations behind wave propagation. We use modified symmetries to transform the system and compare our results to the numerical solutions. The results we obtained will have a greater impact on the formation analysis of biological systems[3].

References

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