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Mutlay Dogan* (mutlay.dogan@ub.edu.bs), Oekas Field Campus University Drive, Nassau, N-4912, Bahamas. *On dynamical behaviors of p-adic Lambda-Ising Vannimenu model on the Cayley tree.*

In the present work, we continue to investigate some features of the mixed type p-adic Lambda-Ising model which was studied in [1]. In that study, the existence of the p-adic Gibbs measures and phase transitions were investigated for the model, on the Cayley tree of order two. In current work, we studied the dynamical behaviors of the fixed points which have been found in [1]. As a main result, we proved that the fixed point u_0 is an attractor and the other fixed points u_1 , u_2 are repellent fixed points for the mixed type p-adic Lambda-Ising model. In addition, we described the size of basin of attractor for the fixed point u_0 , as in [2].

Key words: p-adic numbers, p-adic quasi Gibbs measure, Dynamical systems, Cayley tree.

References

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