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Highlights

Block size dependence of coarse graining in discrete opinion dynamics model: Application to the US presidential elections

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- Considering Ising model and Kinetic exchange model as opinion dynamics model.
- Simulating electoral collage system by applying coarse graining(CG) procedure.
- Non-monotonic variation of popular candidate losing probability(ϵ) with coarse graining block sizes.
- Observable dependence of ϵ with involved noise factors.
- Analyzing the effects of two-step CG on the models.