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Analytic treatment of consensus achievement in the single-type zealotry voter model

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#### ACCEPTED MANUSCRIPT

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### Highlights:

- A single type of zealots was added to the voter model on a complete graph.
- The consensus time was obtained analytically using first-step analysis.
- Consensus time depends on the number of zealots in a power law fashion for large Z.
- The consensus time was found to scale with the size of the population, N.
- Results are similar to those found for the Barabasi-Albert graph.

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