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Wealth and price distribution by diffusive approximation in a repeated prediction market

Giulio Bottazzi, Daniele Giachini

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***Highlights (for review)**

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- repeated prediction market models are difficult to study via Monte Carlo simulations
- an alternative method based on the diffusive approximation is proposed
- the approximation allows to easily discuss qualitative properties of the model
- the approximation well describes wealth and price distributions at equilibrium

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