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Scaling properties of extreme price fluctuations in Bitcoin markets

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Highlights

- Bitcoin price fluctuations across multiple exchanges and time intervals are found to exhibit heavy tails which follow a power-law
- The scaling exponents are estimated to fall within the region $2 < \alpha < 2.5$, suggesting that Bitcoin price fluctuations exhibit heavier tails than the inverse cubic law found in stocks
- The fact that $\alpha > 2$ implies the existence of a finite second moment and presents a fundamental basis for covariance-based characterization of risk

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