I have a post over at Eth Research on how we might be able to safely reduce the challenge time in optimistic rollups like Arbitrum, by proving to the L1 contracts that the L1 chain is not being censored, and allowing faster confirmation of L2 results when L1 non-censorship can be proven.

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Reducing challenge times in rollups

Optimistic rollups, and some other applications, assume that parties can always get a transaction included on Ethereum within some challenge period, which is conventionally seven days. The challenge period needs to be long enough to resist...

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