

is a weekly collection of papers, articles and resources related to MEV. The intention of this letter is to provide a comprehensive summary of the latest research, discussions, and developments in the space, with links for further reading.

Papers & Articles

- [Quantifying the Value of Revert Protection](#) by [Brian Zhu](#), [Xin Wan](#), [Ciamac C. Moallemi](#), [Dan Robinson](#), and [Brad Bachu](#) presents a game-theoretic model to quantify the value of revert protection (RP) in priority auctions, and demonstrates that offering users RP can improve market efficiency and increase

total fee revenue. * [Thread](#) by [Ciamac C. Moallemi](#)

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- [Short Paper: Atomic Execution is Not Enough for Arbitrage Profit Extraction in Shared Sequencers](#) by [Maria Inês Silva](#), and [Benjamin Livshits](#) presents a model to assess arbitrage profits under atomic execution across two CPMM pools, and demonstrate that switching to atomic execution does not always improve profits.
- [Post](#) by [Benjamin Livshits](#)
- [Post](#) by [Benjamin Livshits](#)
- [Harvesting Layer-2 Yield: Suboptimality in Automated Market Makers](#) by [Krzysztof Gogol](#), [Manvir Schneider](#), and [Benjamin Livshits](#) explores the inefficiencies of LPing in AMMs, and details how L1 pools generally underperform pools on L2s, and staked ETH.
- [Thread](#) by [Krzysztof Gogol](#)
- [Post](#) by [Benjamin Livshits](#)
- [Thread](#) by [Krzysztof Gogol](#)
- [Post](#) by [Benjamin Livshits](#)
- [Cross-Rollup MEV: Non-Atomic Arbitrage Across L2 Blockchains](#) by [Krzysztof Gogol](#), [Johnnatan Messias](#), [Deborah Miori](#), [Claudio Tessone](#), and [Benjamin Livshits](#) has been updated with data analyzing price discrepancies across rollups, and non-atomic MEV.
- [Post](#) by [Benjamin Livshits](#)
- [Post](#) by [Benjamin Livshits](#)
- [Pricing Factors and TFMs for Scalability-Focused ZK-Rollups](#) by [Stefanos Chaliasos](#), [Nicolas Mohnblatt](#), [Assimakis Kattis](#), and [Benjamin Livshits](#) explores proposed transaction fee mechanisms for ZK-Rollups and suggests alternative approaches for improved scalability and security.
- [Possible futures of the Ethereum protocol, part 2: The Surge](#) by [Vitalik Buterin](#) explores Ethereum's strategy to scale via L2s and data availability sampling, while maintaining decentralization and security.
- [Possible futures of the Ethereum protocol, part 3: The Scourge](#) by [Vitalik Buterin](#) details centralization risks in Ethereum due to MEV, and discuss alternatives in block construction and staking economics.
- [Possible futures of the Ethereum protocol, part 4: The Verge](#) by [Vitalik Buterin](#) comments on advancements in stateless clients, Verkle trees, STARKs, SNARKs, and quantum resistance.
- [Introducing PBH: Priority Blockspace for Humans](#) by [World](#) introduces World Chain's mainnet launch, Priority Blockspace for Humans (PBH) and [Rollup-Boost](#) for external block production.
- [Thread](#) by [Liam Horne](#)
- [Thread](#) by [Liam Horne](#)
- [A New Era of DeFi with App-Specific Sequencing](#) by [Yuki Yuminaga](#) discusses how Application-Specific Sequencing enables dapps to take control of transaction ordering and mitigate MEV to protect users.
- [Thread](#) by [Sorella Labs](#)
- [Thread](#) by [Ludwig](#)
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- [The Reports of my Death are Greatly Exaggerated or Why Sequencer Decentralization Matters?](#) by [Toghrul Maharramov](#) argues that decentralization in rollups is crucial for achieving liveness, censorship resistance, and strong preconfirmation guarantees.
- [Practical endgame on issuance policy](#) by [Anders Elowsson](#) outlines two potential reward curves for Ethereum's issuance policy to stop staking growth while guaranteeing proper consensus incentives and positive incentives for small solo stakers.
- [Thread](#) by [Anders Elowsson](#)
- [Thread](#) by [Anders Elowsson](#)
- [Decentralising the trade supply chain](#) by [Propeller Heads](#) discusses how the complexity of DeFi's trade supply chain drives centralization, and suggests simplifications to market making, solving, and trading.
- [Post](#) by [Propeller Heads](#)
- [Post](#) by [Propeller Heads](#)
- [Trusted Execution Environments \(TEEs\) in Appchains](#) by [P2 Ventures](#) explores the use of TEEs in chains like [Unichain](#) to improve security and performance, while innovations like PUFs could eliminate reliance on chip manufacturers.
- [Post](#) by [Sylvain Bellemare](#)
- [Post](#) by [Sylvain Bellemare](#)
- [Introducing Conduit G2: The World's Most Powerful Sequencer](#) by [Andrew Huang](#), [Henry Updegrave](#) announces the launch of [Conduit G2](#), a high-performance sequencer that offers 50-100 Mgas/s throughput.
- [Thread](#) by [Conduit](#)
- [Thread](#) by [Andrew Huang](#)
- [Thread](#) by [Conduit](#)
- [Thread](#) by [Andrew Huang](#)
- [Titan, Beaver, and Rsync Gave 85% of Rewards to Validators. How Are These Two Searcher-Builders Holding on to 50%?](#) by [EigenPhi](#) examines how the searcher-builders Yoink and c0ffeebabe.eth manages to retain around 50% of their builder rewards, in contrast to other builders who pay validators 85%.
- [Thread](#) by [EigenPhi](#)
- [Thread](#) by [EigenPhi](#)
- [Upcoming Ethereum Upgrades & Catalysts](#) by [Christine Kim](#) provides an overview of Pectra, including timeline, scope, and the impact on validators, network performance, and L2s.
- [HOT, the MEV-Aware AMM Built to Empower LPs, Is Live](#) by [Arrakis Finance](#) announces the launch of [HOT](#) as an intent-centric AMM built on [Valantis](#), designed to minimize MEV and offer better returns for LPs.
- [Thread](#) by [Arrakis Finance](#)
- [Thread](#) by [Hilmar](#)
- [Thread](#) by [mrs kzg.eth](#)
- [Thread](#) by [GlueX Protocol](#)
- [Thread](#) by [Arrakis Finance](#)
- [Thread](#) by [Hilmar](#)
- [Thread](#) by [mrs kzg.eth](#)
- [Thread](#) by [GlueX Protocol](#)
- [How mev-commit's Privacy Protocol Protects Intra-block MEV Information Leaks](#) by [Primev](#) details how [mev-commit](#) is designed to enable secure and private preconfirmations.
- [Thread](#) by [Primev](#)

- [Thread](#) by [Primev](#)

Posts & Threads

- [Frieder Erdmann](#) published a [thread](#) outlining a TEE EVM as a new TEE built on the EVM for secure and private computation.
- [Mazh](#) published a [post](#) detailing how the [Azuki](#) and [Flashbots](#) collaboration leverages TEEs to enable secure, private interactions, protecting users' data and ensuring confidentiality.
- [Toni Wahrstätter](#) published a [post](#) to highlight the centralization of block building due to private order flow and its implications on censorship resistance and multi-slot MEV
- [Chorus One](#) published a [post](#) detailing how preconfirmations via [Commit-Boost](#) will improve the speed, security, and reliability of transactions.
- [PBS Foundation](#) published a [thread](#) to highlight their [curated list](#) of resources related to PBS and MEV.

Talks & Discussions

- [Ethereum Singapore: Gas Markets & Ethereum Hyperscaling](#) with [Kevin Lepsoe](#), [Wee Howe Ang](#), [Laszlo Szabo](#), and [Artemly Parshakov](#) discuss gas markets, PBS, orderflow, and preconfirmations.
- [Indexed Podcast: Censorship Resistance w/ Thomas Thiery \[PBS Series EP3\]](#) invites [Thomas Thiery](#) to dive into censorship resistance, ILs, and the future of Ethereum.
- [Post](#) by [Indexed Podcast](#)
- [Post](#) by [Indexed Podcast](#)
- [Autonomous TEE Stakeholder Meeting: Stakeholder Meeting](#) invites [Zheng Leong Chua](#), [Tanmay Goel](#), [Sylvain Bellemare](#), and [Shelven Zhou](#) to discuss the next generation of TEEs, and a joint effort to build secure, open-source TEEs to decentralize confidential computing.
- [Post](#) by [Poetic Technologies](#)
- [Post](#) by [Poetic Technologies](#)
- [The Gwart Show: Sequencing and Layers With Thogard](#) invites [Alex Watts](#) for a conversation on MEV, PBS, MCP, and FastLane.
- [Post](#) by [Blockspace Media](#)
- [Post](#) by [Blockspace Media](#)
- [The Rollup: How Espresso Aims To Solve The L2 Fragmentation Problem](#) invites [Ellie Davidson](#) to discuss how [Espresso](#)'s sequencing marketplace and fast finality layer are designed to enhance cross-chain composability while preserving sovereignty.
- [Into The Bytecode. Andrew Huang on Conduit and scaling onchain compute](#) invites [Andrew Huang](#) to talk about parallelized architectures for smart contracts and scaling sequencer throughput to 1 Ggas/s.
- [Post](#) by [Sina Habibian](#)
- [Post](#) by [Sina Habibian](#)
- [Infinite Jungle: Understanding Anoma. An Intent Interface for Ethereum](#) invites [Adrian Brink](#) to cover the timelines of [Namada](#) and [Anoma](#), and how intent-based systems can address issues related to MEV and privacy.

Other

- [Anoma](#) by [Anoma](#) has been open-sourced as a reference implementation of the Anoma protocol.
- [Thread](#) by [Anoma](#)
- [Thread](#) by [Anoma](#)
- [Q&A with Chris Spannos, Blockchain R&D Engineer](#) by [Conor Keville](#) interviews [Chris Spannos](#) to discuss Ethereum

scaling, PBS, and their research into MEV on L2s.

- [A look back at MEV Shanghai](#) by [vita](#) shares their reflections from [MEV Shanghai](#).
- [Xatu Execution Layer data now available](#) by [Andrew Davis](#) and [Sam Calder-Mason](#) announces the release of execution layer data from Ethereum genesis via [cryo](#) in the [Xatu dataset](#).
- [Thread](#) by [ethPandaOps

](<https://ethpandaops.io/>)

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