The MEV Letter

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

- Scaling Ethereum L1 and L2s in 2025 and beyond by Vitalik Buterin outlines Ethereum's road towards scaling as a global, censorship-resistant, and permissionless blockchain.
- Thread by Vitalik Buterin
- Thread by Vitalik Buterin
- Understanding Loss Versus Rebalancing on Layer 2 Blockchains by @elainehu compares empirical data of LVR across L2s, detailing its impact on LPs and ways it can be reduced.
- Consolidation incentives in Orbit/Vorbit SSF by Anders Elowsson presents a framework for consolidation incentives in Orbit SSF/Vorbit SSF to balance staking yield and economic security.
- Thread by Anders Elowsson
- Thread by Anders Elowsson
- Ethereum Acceleration by Georgios Konstantopoulos, Dan Robinson, Matt Huang, and Charlie Noyes argues that Ethereum must accelerate its core protocol development to remain competitive, solve scaling challenges, and better serve its growing ecosystem.
- Thread by Georgios Konstantopoulos
- Post by Matt Huang
- Thread by Georgios Konstantopoulos
- Post by Matt Huang
- Pricing Future Blockspace: A Data-driven Approach by Luban presents a pricing model for hedged preconfirmations to stabilize transaction costs while ensuring stable yields for underwriters.
- Thread by Luban
- Thread by Luban
- Futures of Ethereum I: From Beacon Chain to Beam Chain by sm-stack explores the Beam Chain proposal by Justin Drake, designed to upgrade the CL with faster finality, shorter block times, quantum security, and chain snarkification.
- Thread by 2077 Research
- Thread by 2077 Research
- The Hitchhiker's Guide To Dark Pools In DeFi: Part One by Emmanuel Awosika and Koray Akpinar examines dark pools, and outlines Renegade's design to mitigate MEV with ZKP and MPC.
- Thread by 2077 Research
- Thread by 2077 Research
- Simplifying Crypto UX, One Intent at a Time by 0xyanshu explores how intent-based systems can help solve liquidity fragmentation, chain abstraction, and create seamless Web3 experiences.
- Unpacking The Next Generation Of Ethereum L2s (II): Booster Rollups by Pavel Paramonov describes how booster rollups are designed to extend the blockspace of Ethereum L1 without introducing chain fragmentation.
- Ethereum Foundation R&D teams by nixo.eth outlines the R&D teams within the Ethereum Foundation, their areas of focus, and links for further reading.
- Post by nixo.eth
- Post by nixo.eth
- Rough consensus: post-Pectra by nixo.eth outlines the process for Ethereum core protocol development and EIPs.

- Post by nixo.eth
- Post by nixo.eth
- Our $7M Seed Round: Redefining Rollup Revenue Models outlines Radius vision of leveraging MEV as a revenue stream for rollups.
- Thread by Radius
- Post by Tariz.
- Post by davidwithbull
- Thread by Radius
- Post by Tariz.
- Post by davidwithbull
- Scaling the merkle Private Mempool to 25M tx/day by merkle details how they optimized their private mempool infrastructure to process billions of requests per month.
- Post by merkle
- Post by merkle

Posts & Threads

- Alchemy published a post announcing that Rollup-Boost is now available for any Alchemy-deployed rollups.
- @sui414 published a thread examining the top 10 most lucrative MEV transactions in January and the strategies used.
- @shea published a thread highlighting a recent block where BuilderNet refunded approximately 7 ETH from mempool snipes during a token launch.
- @dataalways published a post to highlight the decline of the public mempool, and how blocks sourced from MEV-Boost consistently outperform locally built blocks in terms of gas usage.
- Steven Goldfeder published a post commenting on Scaling Ethereum L1 and L2s in 2025 and beyond by Vitalik Buterin and the vision to unify Ethereum's rollup ecosystem via native rollups.
- IC3 published a thread presenting an implementation of Liquefaction, enabling assets of a single end-user address to be freely rented, shared or pooled using TEEs.
- Post by Ari Juels
- Post by Ari Juels
- Thumbpark published a thread describing the implications of based sequencing and native execution on L2s in terms of transaction ordering, interoperability, and decentralization.
- Markus Schmitt published a post outlining the distinctions and interactions between solvers, market makers, and relayers in DeFi.
- EigenPhi published a thread detailing a $796K sandwich using pools on both Curve and Uniswap v3.
- Primev published a thread summarizing the first few weeks of mev-commit operating on mainnet.
- Murat Akdeniz published a thread explaining how mev-commit enables proposers to include private preconfirmations.
- Titan Builder published a thread to announce their eth_sendEndOfBlockBundle endpoint, and the discontinuation of blind backruns via eth_sendBundle.
- Spire published a thread examining Ethereum's blob space mechanics, and how rollups can use Spire's blob aggregation service for shared blob usage to reduce costs.

Talks & Discussions

- Protecting against MEV with Flashbots with Chase Chapman, @shea, and Medha Kothari discuss how the integration of Flashbots Protect in Uniswap Wallet provides fast inclusion, fee refunds, and frontrunning protection for users.

- Ethereum Sequencing and Preconfirmations call #17 hosted by Justin Drake brought together rollup and infrastructure teams to discuss based sequencing, native rollups, and FABRIC (Fabric to Accelerate Based Rollup Infrastructure & Connectivity).
- Post by Justin Drake
- Thread by Ben Fisch
- Thread by smstack.eth
- Post by Declan Fox
- Post by Justin Drake
- Thread by Ben Fisch
- Thread by smstack.eth
- Post by Declan Fox
- Deeply Intents hosted by apriori:
- Episode 01: A New Hope invites mteam to discuss MEV, based sequencing, native rollups, and more.
- Thread by apriori
- Thread by apriori
- Episode 02: Unbundling Anoma invites Christopher Goes to explore Anoma's architecture and intent-centric applications.
- Thread by apriori
- Thread by apriori
- Episode 01: A New Hope invites mteam to discuss MEV, based sequencing, native rollups, and more.
- Thread by apriori
- Thread by apriori
- Episode 02: Unbundling Anoma invites Christopher Goes to explore Anoma's architecture and intent-centric applications.
- Thread by apriori
- Thread by apriori

Other

- Contributoor: A Lightweight Beacon Node Companion by Matty, Sam Calder-Mason, and Andrew Davis introduces Contributoor as a lightweight monitoring and data-gathering tool to help improve Ethereum's network visibility with minimal impact on beacon node performance.
- Post by Matty
- Post by Sam Calder-Mason
- Thread by parithosh
- Post by Matty
- Post by Sam Calder-Mason
- Thread by parithosh
- EIP-7805 (FOCIL) Interop Notes by Terence Tsao outlines progress and remaining steps related to implementing FOCIL.
- Post by Terence Tsao
- Post by Terence Tsao

- A Naive FOCIL Interop Between Prysm And Geth by Jihoon Song details how to locally set up a devnet to test FOCIL interoperability between Prysm and Geth.
- Post by Jihoon Song
- Post by Jihoon Song

[Sign up here

](https://flashbots.net/the-mev-letter) if you'd like to get The MEV Letter straight to your inbox!

[Previous editions of The MEV Letter

](https://collective.flashbots.net/tag/the-mev-letter)[Join Flashbots

](https://www.flashbots.net/jobs)