

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.

See our [Transparency Reports](#) for deeper dives into updates related to Flashbots.

Papers & Articles

- [Structural Advantages for Integrated Builders in MEV-Boost](#) by [Mallesh Pai](#) and [Max Resnick](#) looks at integrated searcher-builders and how they outcompete neutral builders through CEX/DEX arbitrage.
- [Thread](#) by [Max Resnick](#)
- [Thread](#) by [Max Resnick](#)
- [Optimal Dynamic Fees for Blockchain Resources](#) by [Davide Crapis](#), [Ciamac C. Moallemi](#) and [Shouqiao Wang](#) introduces a framework for designing dynamic fee mechanisms for multiple network resources.
- [Thread](#) by [Davide Crapis](#)
- [Thread](#) by [Davide Crapis](#)
- [Ethereum's Supply Chain, Part 1](#) by [Emperor](#) explores the past, present, and future of the Ethereum's supply chain, with a focus on issues with the current architecture under PoS and MEV-Boost.
- [Enablement of MEV and the Morals of Extracting](#) by [Patrick McCorry](#) delves into the ethical considerations of MEV and the concept of fairness

in transaction ordering.

- [Lessons Earned One Year Post-Merge: Unraveling PBS and its effect on MEV, Block Building, and the Ethereum Network](#) by [Sajida Zouarhi](#) review the first year since the Merge, with a focus on MEV, PBS and decentralization.
- [Navigating Ethereum's 2024 Consensus Landscape](#) by [Terence Tsao](#) looks at the potential next steps for the Ethereum consensus layer, including work on stability, scalability, and reducing tech debt.
- [Introducing ERC-7521: Generalized Intents for Smart Contract Wallets](#) by [Stephen Monn](#) introduce [ERC-7521](#) as a standard for creating generalized intents in smart contract wallets.
- [Thread](#) by [Essential](#)
- [Thread](#) by [Essential](#)
- [An Introduction to Intents and Intent-centric Architectures](#) by [Awa Sun Yin](#) looks at generalized intents, intent-centric architectures, and what properties they provide to dApps.
- [Typhon's Chimera Chains](#) by [Isaac Sheff](#) describes how Anoma's Chimera Chains generalize shared sequencers and enable stronger cross-chain atomicity guarantees.
- [Thread](#) by [Isaac Sheff](#)
- [Thread](#) by [Isaac Sheff](#)

Posts & threads

- [Making PEPC-DVT private with BLS Blinded Multi-Signatures](#) by [diego](#) explores how BLS Blinded Multi-Signatures can keep the block content private while obtaining signatures from the DVT network.
- [Thread](#) by [diego](#)
- [Thread](#) by [diego](#)
- [A decentralised solver architecture for executing intents on EVM blockchain](#) by [Nitanshu Lokhande](#) and [Haque Farazul](#) introduces Abstracted Transaction Objects

(ATOs) to capture operation-specific information and optimize user intents.

- [Grace Deng](#) published [a thread](#) on proposer commitments (PCs) that categorizes the various alternatives and explores ways they can be combined.

- [Robert Miller](#) published [a post](#) to highlight how users of Flashbots Protect can send private transactions to additional builders for much faster

inclusion times while benefitting from the same privacy guarantees and MEV refunds.

Talks & Discussions

- [Summer '23 Research Seminars](#) by [a16z crypto](#) has been expanded with recordings from 4 presentations related to MEV:
- [Automated Market Making and Arbitrage Profits in the Presence of Fees](#) by [Ciamac C. Moallemi](#)
- [High-Frequency Trading and the Design of Financial Markets](#) by [Eric Budish](#)
- [Transaction Fee Mechanism Design with Active Block Producers](#) by [Pranav Garimidi](#)
- [Trusted Execution Environments \(TEEs\) for Blockchain Applications](#) by [Ari Juels](#)
- [Automated Market Making and Arbitrage Profits in the Presence of Fees](#) by [Ciamac C. Moallemi](#)
- [High-Frequency Trading and the Design of Financial Markets](#) by [Eric Budish](#)
- [Transaction Fee Mechanism Design with Active Block Producers](#) by [Pranav Garimidi](#)
- [Trusted Execution Environments \(TEEs\) for Blockchain Applications](#) by [Ari Juels](#)
- [Based rollups and decentralized sequencing](#) hosted by [Taiko](#) invites [Justin Drake](#), [Ben Fisch](#), [Tomasz K. Stańczak](#) and [Daniel Wang](#) to discuss based rollups, decentralized sequencing, MEV on L2, and SUAVE.

Other

- [ePBS – the infinite buffet](#) by [Mike Neuder](#) provides an overview of the evolving discourse related to ePBS, including (1) in-protocol designs, (2) out-of-protocol proposals, and (3) open questions.
- [censorship.pics](#) by [Toni Wahrstätter](#) is a dashboard that sheds light on the extent of censorship at the different layers of PBS by looking at validators, relays, and builders.
- [Thread](#) by [Toni Wahrstätter](#)
- [Thread](#) by [Toni Wahrstätter](#)
- [Memswap.xyz](#) is an alpha release of a MEV-aware protocol for swapping tokens and NFTs using intents and solvers.
- [Thread](#) by [Peter](#)
- [Thread](#) by [Peter](#)

Upcoming events

- Sept 27th: [ETHconomics at Devconnect](#) invites [Barnabé Monnot](#), [Julian Ma](#) and [Christine Kim](#) to discuss all things [ETHconomics](#) ahead of the Devconnect event on November 15th.
- Oct 5th: [MEV-Boost Community Call #6](#) hosted by [Alex Stokes](#) invites the MEV-Boost ecosystem to discuss Deneb updates, open questions and new proposals.

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