

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.

Articles

- [PEPC FAQ](#) by [Barnabé Monnot](#) dives into the philosophy and architecture of PEPC and how it compares to Eigenlayer, SUAVE and ABCI++. The post also introduces two new designs: In-protocol MEV-capture using PEPC, and Out-of-protocol PEPC with PEPC-Boost.
- [Game-theoretic Model for MEV-boost Auctions \(MMA\)](#) by [soispoke](#) presents a game-theoretic model for MEV-boost auctions, where players bid as block builders and proposers act as auctioneers.
- [Account Abstraction\(AA\): Link Web3 and Web2](#) by [YQ](#) delves into the “intricacies of account abstraction, tracing its evolution, present state, and future trajectory, while addressing key questions revolving around this topic.”
- [Tweet-thread](#) by [YQ](#)
- [Tweet-thread](#) by [YQ](#)
- [Intent-Based Architectures and Projects Experimenting with Them](#) by [Bastian Wetzel](#) gives an overview of projects working on intent-based architectures, enabling users to express their desired outcomes, rather than specifying each transaction.
- [Tweet-thread](#) by [Bastian Wetzel](#)
- [Tweet-thread](#) by [Bastian Wetzel](#)
- [Curve Pool Reentrancy Exploit Postmortem July 30th, 2023](#) by [LlamaRisk](#) looks at the reentrancy bug in (certain versions of) the Vyper compiler that led to 4 Curve pools being drained on July 30th. The exploit resulted in the second highest daily payout to proposers through MEV-Boost with [7186 ETH](#).

Posts & threads

- [Capture the Flag

](<https://collective.flashbots.net/t/capture-the-flag/2100>) by [Shea Ketsdever](#) introduces [MEV-Share CTF](#) – a capture the flag event using MEV-Share on Goerli running from Aug 5-7th. The CTF consists of 10 flags that are activated by specific transactions or bundles, with points awarded to searchers based on difficulty.

- [The MEV Workshop at the Science of Blockchain Conference 2023 \(MEV-SBC '23\)](#) by [Sarah Allen](#) announces the MEV-SBC workshop on Aug 31st at Stanford University. The event will highlight important MEV research from the past year and present new research problems for the community to prioritize.
- [Should builder discard failed transactions from bundles when they're specified as reverting transaction hashes?](#) by [Wasif Iqbal](#) seeks community feedback on whether the Flashbots builder should discard failed transactions from bundles when they're specified as reverting transaction hashes.
- [Grace Deng](#) published [a thread](#) on intents, providing an overview of the current landscape with a closer look at CowSwap hooks, UniswapX and the MEVM on SUAVE.
- [Thogard](#) published [a thread](#) detailing the “Hook of Divine Sandwiches”, a Uniswap v4 hook that aims to minimize LVR/IL by leveraging sandwiches as a way that benefits the LPs of the pool.
- [JK](#) published [a thread](#) of their takeaways looking at various organizations in the MEV space and how the landscape might evolve going forward.

Other

- [Reorg.pics](#) by [Toni Wahrstätter](#) is a dashboard that visualizes missed slots on Ethereum with breakdowns of CL-clients, proposers, relays and builders.
- [Tweet-thread](#) by [Toni Wahrstätter](#)
- [Tweet-thread](#) by [Toni Wahrstätter](#)

- [MEV at the Crossroads | MEV Decoded Part 3](#) hosted by [Blocknative](#) with guests [@ballsyalchemist](#) [Sophie_EigenPhi](#), [Blair Marshall](#) and [Tony Denyer](#) explore the future of MEV through the lens of transaction data analysis.
- [DeFi 2.0: How This Changes Everything with Paradigm's Head of Research, Dan Robinson](#) invites [Dan Robinson](#) to talk about UniswapX and how it will impact the AMM landscape including MEV, chain interoperability and the introduction of new off-chain actors.
- [MEV-Week Paris](#) has been updated with additional recordings and slides from MEV-related events in Paris. The page will continuously be updated over the next couple of weeks as more recordings are being uploaded.

Upcoming events

- Aug 5-7: [MEV-Share CTF](#).
- Aug 8: [Pantera Capital MEV Conference call](#) with [Matt Stephenson](#) and [Quintus](#).
- Aug 10: [Mechanism Design Deep Dive](#) with [Blockworks Research](#) and [SMG](#) to dive into censorship, private orderflow and MEV.
- Aug 17: [MEV-Boost Community Call #5](#) hosted by [Alex Stokes](#) will discuss Deneb, including spec and implementation updates, as well as [eth_validatePayload](#) and [validator registrations onchain](#).
- Aug 18: [ETHPortland Summit](#) will have [Danning Sui](#) present insights on MEV data.
- Aug 31: [MEV-SBC workshop](#).

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