

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

- [No free lunch – a new inclusion list design](#) by [Vitalik Buterin](#) and [Mike Neuder](#) outlines a new mechanism for inclusion lists designed to solve the free data availability problem.
- [PBS Guild Proposal \[v3 WIP\]](#) published by [Tina](#), and jointly proposed by the MEV-Boost community, introduce the initial proposal for PBS Guild as “a non-commercial ecosystem R&D funding vehicle [...] designed to streamline decision-making process and open to funding mechanism experimentation”.
- [Rollups are Real — Rollup Economics 2.0](#) by [Davide Crapis](#) introduces Rollup Economics 2.0

as a framework to describe value flows in mature rollup ecosystems. *[Tweet-thread](#) response by [Andy](#)

- [Tweet-thread](#) response by [Andy](#)
- [The Cross-Domain Thesis Part 1: Setting The Stage](#) published by [Maven11 Research](#) dives into the future of rollups, looking at EIP-4844, cross-rollup interoperability, Cosmos SDK Modules and more.
- [Demystifying Intent-Driven Transactions](#) by [YQ](#) explores the limitations of Ethereum’s current transaction model and presents how intent-driven transactions can enhance the user experience.
- [Tweet-thread](#) by [YQ](#)
- [Tweet-thread](#) by [YQ](#)
- [Decentralize Rollup I: Decentralized Sequencing](#) by [YQ](#) describes different ways to decentralize rollup sequencers to reduce MEV and improve their liveness guarantees, censorship resistance and interoperability.
- [Tweet-thread](#) by [YQ](#)
- [Tweet-thread](#) by [YQ](#)

Posts & threads

- [Disclosure: Flashbots builder included reverting transactions in blocks](#) by [Shea Ketsdever](#) details the timeline, root cause and mitigations of the incident on August 9 where one of the Flashbots builders included reverted transactions in blocks.
- [SMG](#) published [a thread](#) highlighting the emerging trend of builders running their own searchers, outcompeting other builders by capturing top-of-block MEV through CEX-DEX arbitrage.
- [Tweet-thread](#) by [Max Resnick](#)
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- [Grace Deng](#) published [a thread](#) summarizing recent proposals for shared sequencing and cross-rollup interoperability.
- [Vuke](#) published [a thread](#) on how the transaction supply chain of Ethereum has evolved from genesis to the complex landscape of today with PBS, OFAs, account abstraction and intents.
- [Max Resnick](#) published [a thread](#) on the current state of onchain trading, highlighting the lack of overlap between takers and makers and the importance of correcting the problem of LVR.
- [Uniswap Labs](#) published [a thread](#) on how MEV impacts users and how UniswapX is designed to help mitigate this by routing orders to fillers.
- [Joshrudolf.eth](#) published [a thread](#) on the recent progress of Verkle Trees and statelessness, intended to alleviate the problem of Ethereum’s ever-growing state size.

Talks & Discussions

- [MEV-Boost Community Call #5](#) hosted by [Alex Stokes](#) discussed specification and implementation details of the upcoming Deneb/Cancun upgrade, as well as the PBS Guild proposal.
- Recording will be posted on the [Flashbots forum](#) once available.
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- [LVR Reduction: The Biggest Open Problem in DeFi \(Part Two\)](#) hosted by [Max Resnick](#) and [Malleesh Pai](#) with [Dan Robinson](#) and [Alex Nezhlobin](#) discuss potential solutions to reduce LVR in DeFi.
- [Part One](#)
- [Part One](#)

Other

- [MEV Bots Analytics](#) by [Wonderland](#) is a new dashboard that provides details on the behavior, activity and PnL of searchers on Ethereum.
- [Tweet-thread](#) by [Wonderland](#)
- [Tweet-thread](#) by [Wonderland](#)
- [mev-share-go](#) by [duoxehyon](#) is a client library for MEV-Share based on [the MEV-Share Spec](#), written in Golang.

Upcoming events

- Aug 21: [MEV Roast: The threat of integrated builders & ToB market](#) hosted by [Fenbushi Capital](#) with guests [Malleesh Pai](#), [Max Resnick](#), [Stephane](#) and [Ankit Chiplunkar](#).
- Aug 31: [MEV-SBC workshop](#) aims to highlight important MEV research done in the past year and talks that will illuminate a new round of research problems the community should prioritize.

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