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

- [Open sourcing rbuilder](#) by [Flahbots](#) announces [rbuilder](#) as a blazingly fast, open-source block builder written in Rust.

- [Thread](#) by [@shea](#)

- [Post](#) by [@metachris](#)

- [Thread](#) by [@shea](#)

- [Post](#) by [@metachris](#)

- [Preconfirmations under the NO lens](#) by [Umberto Natale](#) analyzes the complexity of implementing preconfirmations in Ethereum's PBS framework and the impact on builders and searchers.

- [Thread](#) by [Umberto Natale](#)

- [Thread](#) by [Umberto Natale](#)

- [MEV resistant dynamic pricing auction of execution proposal rights](#) by [Anders Elowsson](#) presents an alternative auction mechanism for selling execution proposal rights in advance.

- [Thread](#) by [Anders Elowsson](#)

- [Thread](#) by [Anders Elowsson](#)

- [Maximum Viable Security: A New Framing for Ethereum Issuance](#) by [Artem](#), [@McNut](#), [Sonya Kim](#) and [adcv_](#) presents Maximum Viable Security (MVS) as an alternative monetary policy for Ethereum, and argues that security

should be prioritized over scarcity. * [Thread](#) by [Artem](#)

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

- [Leaderless and Leader-Based Preconfirmations](#) by [Christian Matt](#) and [Murat Akdeniz](#) explores leader-based and leaderless preconfirmations, their trade-offs, and potential combinations.

- [Deep Diving Attestations - A quantitative analysis](#) by [Toni Wahrstätter](#) analyzes attestations and the impact of MEV-Boost, CL-clients, timing games, blobs, and more.

- [Intel TDX Security and Side Channels](#) by [@PradyumnaShome](#) details a selection of security concerns with TDX and their implications.

- [Autonomous TEE Manifesto](#) by [Poetic Technologies](#) shares a vision of an open-source software and hardware architecture for confidential computation, particularly TEEs.

- [Post](#) by [Poetic Technologies](#)

- [Post](#) by [Poetic Technologies](#)

- [Drawbacks In FHE Blockchain And How SGX Can Help It](#) by [@tolak](#) describes how using FHE and TEEs can improve key security, encryption validity, and computation validity.

- [Execution Consensus Separation](#) by [Max Resnick](#) outlines changes to Ethereum's execution, consensus, and application layer to reduce MEV and improve censorship resistance.

- [Thread](#) by [Max Resnick](#)

- [Thread](#) by [Max Resnick](#)

Posts & Threads

- [@shea](#) published a [thread](#) to announce that gas refunds are now available on all transactions sent to Flashbots Protect and builder.

- [Barnabé Monnot](#) published a [thread](#) that revisits the idea of [Proposer suffixes](#) by [Vitalik Buterin](#) through the lens of

APS and IL constructions.

- [Matt Cutler](#) published a [thread](#) to highlight that private transactions on Ethereum have surpassed 30%, and the trends seem to be accelerating.

- [Post](#) by [@sui414](#)

- [Post](#) by [@sui414](#)

- [Tariz](#) published a [post](#) that details how implementing PBS in rollups could serve as an economic incentive for decentralization.

Talks & Discussions

- [ePBS Breakout room #4](#) discussed [EIP-7732](#), processing withdrawals as part of the execution payload, PTC equivocations, and more.

- [Agenda](#) by [Potuz](#)

- [Notes](#) by [Terence Tsao](#)

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- [The Rollup](#): [The C.A.K.E Framework, Credible Accounts, and Resource Locks](#) invites [Stephane Gosselin](#) to discuss chain abstraction, credible auctions, shared sequencers, MEV, and [OneBalance](#)

- [Post](#) by [The Rollup](#)

- [Post](#) by [The Rollup](#)

- [The Gwart Show: Crypto Market Making](#) invites [Evgeny Gaevoy](#) to discuss market-making, the evolution of DeFi, and [Wintermute](#).

Other

- [Flashbots Protect Explorer](#) by [@tesa](#) announces an explorer for [Flashbots Protect](#) with refund metrics for both projects and individual addresses.

- [Protect Explorer](#) by [Flashbots](#)

- [Protect Explorer](#) by [Flashbots](#)

- [EIP-7732: Enshrined Proposer-Builder Separation](#) by [Francesco D'Amato](#), [Barnabé Monnot](#), [Michael Neuder](#), [Potuz](#), and [Terence Tsao](#) separates the Ethereum block in consensus and execution parts, and adds a mechanism for the consensus proposer to choose the execution proposer.

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

- [Thread](#) by [Barnabé Monnot](#)

- [Post](#) by [Terence Tsao](#)

- [Thread](#) by [Christine Kim](#)

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

- [Thread](#) by [Barnabé Monnot](#)

- [Post](#) by [Terence Tsao](#)

- [Thread](#) by [Christine Kim](#)

- [A map of Ethereum](#) by [Emperor](#) is a collection of resources related to MEV, PBS, censorship resistance, and more.

- [eth_sendBlobs](#) by [Titan Builder](#) is a new blob mempool feature designed to improve blob inclusion and reduce the likelihood of surging blob fees.

- [Thread](#) by [Titan Builder](#)

- [Thread](#) by [Titan Builder](#)

Upcoming events

- July 8-11

: [EthCC](#)by [Ethereum France](#)

- July 10:

[FHE Summit](#)by [FHE Onchain](#)

- July 10

: [AltLayer Rollup Day](#) by [AltLayer](#)

- July 11

: [TEE.salon](#) by [Flashbots](#) * [Post](#) by [dmarz](#)

  - [Post](#) by [dmarz](#)

  - July 11

: [Liquidity.Salon: The State of Onchain Liquidity](#) by [Flashbots](#), [Uniswap Foundation](#) and [PropellerHeads](#) * [Thread](#) by [PropellerHeads](#)

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

  - July 11

: [Unaligned Day](#) by [FastLane Labs](#) * [Thread](#) by [Alex Watts](#)

  - [Thread](#) by [Alex Watts](#)

  - [Thread](#) by [Alex Watts](#)

  - [Thread](#) by [Alex Watts](#)

  - July 11-13

: [Modular Summit 3.0](#) by [Celestia Labs](#) and [Maven11](#)

  - July 13

: [DarkPool.Design](#) by [Flashbots](#), [Uniswap Foundation](#) and [PropellerHeads](#) * [Post](#) by [dmarz](#)

  - [Post](#) by [Reid Yager](#)

  - [Post](#) by [dmarz](#)

  - [Post](#) by [Reid Yager](#)

  - Aug 6:

[The MEV Workshop at the Science of Blockchain Conference 2024 (MEV SBC '24)](#)by [Flashbots](#)

  - Aug 7-9

: [The Science of Blockchain Conference 2024 (SBC'24)](#) by [IC3](#), [Stanford Center for Blockchain Research](#) and [UC Berkeley RDI](#).

  - Aug 16-17

: [Frontiers](#) by [Paradigm](#) * [Thread](#) by [Georgios Konstantopoulos](#)

  - [Thread](#) by [Georgios Konstantopoulos](#)

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