

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.

In order to ensure The MEV Letter meets its objectives and provides an optimal reading experience, we've set up a [survey](<https://3eoyy3ayc8w.typeform.com/to/KrtWUvSV>) to better understand reader preferences and expectations.

We do not include any trackers in the emails, which means that we can not perform direct analytics on reader behavior. Instead, we rely on your feedback to optimize content and improve the publication further. The [survey

](<https://3eoyy3ayc8w.typeform.com/to/KrtWUvSV>) is quick and your engagement is very much appreciated. Thank you

!

Papers & Articles

- [Atlas](#) by [Alex Watts](#), [Jacob Greene](#), [Jeremy Feral](#), [Jordan Hagan](#) and [Ben Sparks](#) introduces [Atlas](#) by [FastLane Labs](#) as a generalized execution abstraction protocol that facilitates programmable MEV mitigation at the application layer.
- [Thread](#) by [Atlas](#)
- [Thread](#) by [Atlas](#)
- [State Lock Auctions: Towards Collaborative Block Building](#) by [dmarz](#) propose a mechanism for a Top-of-Block state lock auction that enables optimistic construction of partial blocks.
- [Thread](#) by [dmarz](#)
- [Ethereum Research post](#) by [dmarz](#)
- [Thread](#) by [dmarz](#)
- [Ethereum Research post](#) by [dmarz](#)
- [Unconditional inclusion lists](#) by [Mike Neuder](#) and [Toni Wahrstätter](#) presents a design philosophy for unconditional inclusion list, evaluates potential alternatives, and introduces a two-slot design.
- [Thread](#) by [Mike Neuder](#)
- [Thread](#) by [Mike Neuder](#)
- [On Increasing the Block Gas Limit](#) by [Toni Wahrstätter](#) and [Vitalik Buterin](#) outlines paths to reduce the maximum block size, balance calldata pricing, and raise the block gas limit.
- [CronFi Streaming Bridge](#) by [pbj](#) shares a fully on-chain bridge design for SUAVE that utilizes interdependent AMMs on both domains.
- [The MVI Grants Program](#) by [Konstantin Lomashuk](#) and [Artem Kotelskiy](#) announces a grant from [cyber•Fund](#) to study the effects of [Minimum Viable Issuance](#) (MVI) and Ethereum staking economics.
- [Thread](#) by [Konstantin Lomashuk](#)
- [Post](#) by [cyber•Fund](#)
- [Thread](#) by [Konstantin Lomashuk](#)
- [Post](#) by [cyber•Fund](#)

Posts & Threads

- [rain&coffee](#) published a [thread](#) with a technical overview of decentralized- and shared sequencers and their impact on finality, DA and MEV.
- [InfectedCrypto](#) published a [thread](#) on how TWAP discourages price manipulation and how Uniswap V3's use of the geometric mean further increases the cost of manipulation.
- [UMA](#) published a [thread](#) with an overview of Oracle Extractable Value (OEV), and how [Oval](#) enables lending protocols to capture this value.

Talks & Discussions

- [Indexed Podcast: Orderflow, Inscriptions, ETFs & \\$JUP](#) with [Boxer](#), [Danning Sui](#) and [hildobby](#) dives into [orderflow.art](#), OFAs, the current DEX landscape, and more.
- [Post](#) by [Indexed Podcast](#)
- [Thread](#) by [Danning Sui](#)
- [Post](#) by [Indexed Podcast](#)
- [Thread](#) by [Danning Sui](#)
- [Research Hours: Just-In-Time Liquidity](#) with [Austin Adams](#), [Xin Wan](#), [Ruizhe Jia](#) and [Agostino Capponi](#) discuss JIT liquidity provisioning, how it impacts overall liquidity, and how AMMs can leverage JIT to their advantage.
- [Recordings](#) from Day 3 of [Columbia CryptoEconomics Workshop 2023](#) with presentations on MEV, PBS, inclusion lists, timing games and more has been uploaded.
- [Recordings](#) from Day 1 & 2
- [Recordings](#) from Day 1 & 2
- [Bankless: Fixing Fragmentation](#) invites [Justin Drake](#) to discuss chain fragmentation, universal synchronous composability, shared sequencing, and based rollups.
- [Post](#) by [Justin Drake](#)
- [Post](#) by [Justin Drake](#)
- [Scraping Bits](#):
- [Native Crosschain MEV: Cosmos Blockchain Relayer MEV?!](#) invites [magmar](#) to explore crosschain MEV opportunities in the Cosmos ecosystem and how relayers have the potential to capture value.
- [Automation Of Blockchain Smart Contract Security](#) invites [Mehdi Zerouali](#) for a discussion on the intricacies of automating smart contract security.
- [Native Crosschain MEV: Cosmos Blockchain Relayer MEV?!](#) invites [magmar](#) to explore crosschain MEV opportunities in the Cosmos ecosystem and how relayers have the potential to capture value.
- [Automation Of Blockchain Smart Contract Security](#) invites [Mehdi Zerouali](#) for a discussion on the intricacies of automating smart contract security.

Other

- [mev-boost-relay v0.29](#) by [Flashbots](#) has been released with support for the upcoming Deneb upgrade.
- [\[TEMP CHECK\] Integrate Oval for the BAL & SNX Ethereum V3 Markets](#) by [UMA](#) proposes a pilot program of integrating [Oval](#) into two [Aave](#) pools to capture MEV associated with oracle updates.
- [ROP-9: Multiplicity gadgets for censorship-resistance](#) by [Barnabé Monnot](#), [Francesco D'Amato](#) and [Thomas Thiery](#) outlines an open problem to study the feasibility for a [Multiplicity](#) gadget adapted to Ethereum PoS to enhance censorship resistance and enable new incentive schemes.
- [Guide to LVR Empirics](#) by [Anthony Lee Zhang](#) is a guide for calculating LVR when analyzing AMM LP data, with examples in R and Stata.
- [Post](#) by [Anthony Lee Zhang](#)
- [Post](#) by [Anthony Lee Zhang](#)
- [Echo Release V1.0: Now Globally Distributed](#) by [Nicolas Racchi](#) presents an upgrade to [Echo](#) that enables quicker and more reliable broadcasting of transactions and bundles to block builders.
- [Thread](#) by [Chainbound](#)
- [Thread](#) by [Chainbound](#)

Upcoming events

- March 12

: [mev.market](#) hosted by [Nethermind](#) and [Flashbots](#) will bring together researchers and practitioners to explore architectures for on-chain trading, order flow, and block building. * [Post](#) by [Nethermind](#)

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

[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>)