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

- Releasing DCAP library v4: A unified interface to verify TEEs on-chain by Automata Network announces the release of Automata's DCAP library v4 for a unified interface that performs verification logic for Intel SGX and TDX directly on-chain.

- Thread by Automata Network

- Thread by @socrates1024

- Thread by Automata Network

- Thread by @socrates1024

- Espresso Systems and Offchain Labs Publish Decentralized Timeboost Specification by Espresso Systems details the specification for Decentralized Timeboost designed to reduce MEV, and increase censorship-resistance for rollups.

- Thread by Espresso Systems

- Thread by Espresso Systems

- Transaction Ordering Policies & Value Accrual in L2s: Timeboost, OP PGA, Fastlane, and OEV Network by Delphi Digital explores Timeboost on Arbitrum and compares it with other transaction ordering mechanisms like Optimism's PGA, FastLane on Polygon, and OEV Network by API3.

- Forum post by Delphi Digital

- Thread by Delphi Digital

- Thread by Muhammad Yusuf

- Forum post by Delphi Digital

- Thread by Delphi Digital

- Thread by Muhammad Yusuf

- Trusted Advantage in Slot Auction ePBS by Julian Ma argues that proposers will not be incentivized to use slot auction ePBS as it would reduce their revenue compared to MEV-Boost.

- Post by Julian Ma

- Post by Julian Ma

- FOCIL Resource Design Considerations by Terence Tsao details resource considerations of FOCIL to ensure its efficiency and security.

- Post by Terence Tsao

- Post by Terence Tsao

- Privacy Problems in the P2P Network and What They Tell Us by Lioba Heimbach, Yann Vonlanthen, Juan Villacis, Lucianna Kiffer, Roger Wattenhofer summarizes their paper that demonstrated a method to deanonymize Ethereum validators in the P2P network.

- BeaverBuild's $476K Profit in 45 Days: Backrunning BananaGun via Jaredfromsubway by EigenPhi details how Beaverbuild's new bot and Jaredfromsubway.eth's bot share the same calldata, and analyzes their strategies and profits.

- Pioneering End-to-End Privacy for Intra-Block Commitments by Bernardo Magri and Christian Matt details the two cryptographic primitives that provide privacy and anonymity for bidders and providers in mev-commit.

Posts & Threads

- @stephen published a thread exploring two sandwich attacks on large ETH withdrawals from Contango.

- [rain&coffee](#) published a [thread](#) to summarize their presentation on orderflow, block bids, and applications specific sequencing.

- [@bert](#) published a [post](#) to highlight a user [receiving a ~6 ETH refund](#) by using [Flashbots Protect](#).

Talks & Discussions

- [Indexed Podcast](#): [Proposer Timing Game w/ DataAlways: PBS Series](#) invites [@dataalways](#) for a presentation on MEV, timing games, and block building.

- [Post](#) by [Indexed Podcast](#)

- [Post](#) by [Indexed Podcast](#)

- [Understanding MEV, Challenges and Solutions](#) by [@fiiiu](#) provides an overview of MEV, its centralizing effects, and relevant regulation and policy.

- [Garbled Circuits and One Time Programs Using Commodity Lockbox](#) by [@socrates1024](#) details Garbled Circuits and how to use mobile phone Lockboxes to make them non-interactive.

- [Post](#) by [@socrates1024](#)

- [Post](#) by [@socrates1024](#)

- [Timeboost & Ethical MEV](#) invites [Matt Fiebach](#), [@bert](#) , [Steven Goldfeder](#), and [Ed Felten](#) to dive into [Timeboost](#) and its design to reduce MEV and increase censorship-resistance on Arbitrum.

- [The Gwart Show: Citadel, But On-Chain](#) invites [Ludwig Thouvenin](#) to discuss MEV, Uniswap V4, and [Brontes](#).

- [Post](#) by [Blockspace Media](#)

- [Post](#) by [Blockspace Media](#)

- [Expansion](#): [Rethinking Ethereum's Block Building: CommitBoost & Pre-Confirmations](#) invites [Drew Van der Werff](#) for a conversation on PBS, censorship resistance, preconfirmations, and [commit-boost](#).

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

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

- [Bankless](#): [The Ethereum Roadmap is NOT Off Track!](#) invites [Mike Neuder](#) to discuss [(e)thesis](#) and how Ethereum enables strong property rights while expanding economic activity via rollups.

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

- [Post](#) by [Mike Neuder](#)

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

- [Post](#) by [Mike Neuder](#)

- [Distributed Block Building Call #0](#) hosted by [Dankrad Feist](#) discuss distributed block building and how to ensure local block building remains feasible.

- [The Rollup](#): [The Based Rollup Stack with Spire Labs](#) invites [mteam](#) to discuss based rollups, composability, and the [The Based Stack](#).

- [Post](#) by [The Rollup

](https://therollup.co/)

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](https://therollup.co/)

Other

- [Stargazing 2: Trustworthy](#) by [@cryptrowanderer](#) explores how SUAVE may direct MEV towards creating a more trustworthy world, encouraging decentralized and meaningful collaboration.

- [Poetic Intents: Seeding the next generation of TEEs.](#)by [Poetic Technologies](#) calls for collaboration to develop a trustless, open-source, and tamper-resistant TEE to address the limitations of proprietary alternatives.

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

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

- [Constitutional AIP: Proposal to adopt Timeboost, a new transaction ordering policy](#)by [Arbitrum](#) has passed, signaling the activation of [Timeboost](#) for Arbitrum One and Arbitrum Nova with ETH collected in treasury.

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