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

- On the Redistribution of Maximal Extractable Value: A Dynamic Mechanism by Pedro Braga, Georgios Chionas, Stefanos Leonardos, Piotr Krysta, Georgios Piliouras, Carmine Ventre propose a dynamic mechanism to balance users and proposers welfare through MEV, inspired by the design principles of EIP-1559.
- Thread by Georgios Chionas
- Thread by Georgios Chionas
- <u>The Cost of Permissionless Liquidity Provision in Automated Market Makers</u> by <u>Julian Ma</u>, <u>Davide Crapis</u> present a game theoretic model of simultaneous liquidity provision by passive LPs, showing that competition between LPs causes a loss in total LP welfare that grows linearly with the number of passive LPs.
- Thread by Julian Ma
- Thread by Julian Ma
- The more, the less censored: Introducing committee-enforced inclusion sets (COMIS) on Ethereumby Thomas Thiery,
 Francesco D'Amato and Barnabé Monnot introduce an inclusion lists design that shifts the inclusion responsibilities from a single proposer to a committee.
- Thread by Thomas Thiery
- Thread by Thomas Thiery
- Integrating SUAVE with Astria Rollups by itamar proposes a method of integrating SUAVE bundle construction into the Astria shared sequencer to reduce MEV on Celestia-based rollups.
- Thread by itamar
- Thread by itamar
- How to Raise the Gas Limit, Part 1: State Growth by Storm Slivkoff, Georgios Konstantopoulos delves into the intricacies of Ethereum's state growth and block gas limit through empirical data.
- Thread by Storm Slivkoff
- · Thread by Storm Slivkoff
- <u>Crypto-Powered Information Games</u> by <u>Benjamin Funk</u> explores the trends of data monetization and information games and describes how SUAVE can facilitate decentralized, trustless information markets.
- <u>Demonstration of SUAVE oracle</u> by <u>Miha Lotric</u> presents a PoC implementation of a Binance price oracle that's updated via contracts on SUAVE and settled on Goerli.
- Protecc'ed Execution on Orderflow by dmarz discusses a method for executing transactions without leaking information or compromising data integrity through SUAVE.
- <u>Emit Solidity events during off-chain computation</u> by <u>Ferran</u> present a new functionality insuave-geth to emit onchain events generated during the offchain computations on the Kettle.
- Reconsidering the market structure of PBS by Barnabé Monnot shares thoughts related to current ePBS and execution tickets discussions, distinguishing proposing rights from building rights, and their corresponding markets.
- Why aren't transactions landing on chain? by Antony Denyer explores the economics of block building and
 investigates why some transactions are discarded by some builders.
- <u>Beyond the Basics: The Unanticipated Advantages of ePBS</u> by <u>Potuz</u> outlines positive externalities of ePBS like the potential of slot auctions.
- <u>Securing off-chain services</u> by <u>Prabhu Eshwarla</u> explores the trust models of deploying off-chain services in TEEs to enhance security and integrity.

Posts & Threads

- vita published a thread that describe their plan to build a frequent batch auction on SUAVE as described in the forum post by Alphaist.
- <u>Valentin</u> published a <u>thread</u> to announce the launch of <u>mev.fyi</u> with 1000+ papers, articles, docs, and videos, including <u>recordings from ETHDenver</u>.
- Potuz published a thread that seeks input from searchers and builders on the implications of ePBS on bid privacy.

Potuz published a thread that describes how sequencers can delay their publication of L2 blocks to extract MEV through a vertically integrated L1 builder.

Talks & Discussions

- ETHDenver:
- The Cost of Artificial Latency in a PBS Contextby Michael Moser
- What Happens if a MEV-Boost Relay Goes Rogue? by Auston Sterling
- The New Era of Transaction Observability: Deciphering MEV's Shifting Value Landscapeby Ye Wang
- Encryption Tools for MEV Protection in DeFi on Any Blockchain by Liam McDonald
- Sharing a Sequencer Is Caring About Interoperability by Ben Fisch
- Opportunities for the Ethereum Mempool by Joseph Poon
- Frontrunning Hacks: Bound to Become Irrelevant by Odysseas Lamtzidis
- MEV Smoothing Pools: A No Brainer for the Solo Staker and Small LSDsby Pol Lanski
- Capturing Oracle Extractable Value Through Specialized OFAs by Ugur Mersinlinglu
- Business of Block Space Pt. 2: Mevconomics by Will Nuelle
- Preconfirmations on Mainnet by Murat Akdeniz
- Build a Searcher Bot to Capture MEV Using the OEV Networkby Billy Campana
- The Cost of Artificial Latency in a PBS Contextby Michael Moser
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- Financial Cryptography and Data Security 2024:
- Short Paper: Shared Sequencing and Latency Competition as a Noisy Contestby Jan Christoph Schlegel
- Paper by Akaki Mamageishvili and Jan Christoph Schlegel
- Paper by Akaki Mamageishvili and Jan Christoph Schlegel
- <u>DeFi composability as MEV non-interference</u> by <u>Riccardo Marchesin</u>

- Paper by Massimo Bartoletti, Riccardo Marchesin and Roberto Zunino
- Paper by Massimo Bartoletti, Riccardo Marchesin and Roberto Zunino
- The Power of Default: Measuring the Effect of Slippage Tolerance in Decentralized Exchanges by Robert McLaughlin and Nir Chemaya
- Paper by Nir Chemaya, Dingyue Liu, Robert McLaughlin, Nicola Ruaro, Christopher Kruegel, and Giovanni Vigna
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- Optimal Dynamic Fees for Blockchain Resources by Shouqiao Wang
- Paper by Davide Crapis, Ciamac C. Moallemi and Shouqiao Wang
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- Does Proposer-Builder Separation Preserve Decentralization?
- Paper by Maryam Bahrani, Pranav Garimidi and Tim Roughgarden
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- The Costs of Swapping on the Uniswap Protocol by Xin Wan
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- <u>Scraping Bits: How A Web3 Solo Searcher Discovers Long Tail MEV Strategies</u> invites <u>Taker</u> to discuss warstories, how to find long tail strategies, LP sniping, and more.
- <u>Bankless</u>: <u>Ethereum's New Frontier Has Arrived</u> invites <u>Justin Drake</u> and <u>Ben Fisch</u> to discuss shared- and based sequencing, rollup sovereignty, MEV redistribution, and <u>Espresso Systems</u>.
- RollCall #3.1 Breakout Shared Sequencing by Justin Drake gives an overview of shared- and based sequencing and what MEV-Boost would look like with preconfirmations.

- Slides by Justin Drake
- Slides by Justin Drake
- <u>Unchained</u>: <u>Famed White Hat Hacker Samczsun on How to Improve Crypto Security</u> invites <u>samczsun</u> to discuss the <u>Security Alliance</u> hotline for immediate response during active exploits as well as security measures individuals should take to protect themselves.

Other

- mev-boost v1.7 by Flashbots has been released as the Deneb ready release for mainnet.
- Add new rules on block scoring excluding withdrawals by Alex Stokes implements mev-boost improvement proposal #0 to exclude withdrawals to fee recipients when relays computes a payload's value.
- Anvil for MEVM external provider by brock presents a fork of foundry that implements suavex_call

in anvil, to make it easier to test SUAPPs locally.

- mev by CHANCE is an open-source and modular Typescript framework for building MEV strategies.
- Post by CHANCE
- Thread by CHANCE
- Post by CHANCE
- Thread by CHANCE
- State of MEV Report Request for Comments by Ariiellus presents their initiative to write a report on the current state of MEV and request feedback on the outline and topics.
- <u>Flashbots SUAVE Bot</u> by <u>Flashbots</u> posts notifications when new topics are published in the <u>SUAVE-category</u> on the Flashbots collective forum.

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