

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

- [Exploring paths to a decentralized, censorship-resistant, and non-predatory MEV Ecosystem](#) by [Alex Watts](#) analyzes the game theory of [FastLane on Polygon](#) and explores how the same concepts could be combined with a new style of ePBS on Ethereum.
- [The Influence of CeFi-DeFi Arbitrage on Order-Flow Auction Bid Profiles](#) by [Data Always](#) dives into the rise of integrated searcher-builders, their win rate in OFAs, and the potential impact of MEV-burn.
- [Searcherbuilder.pics: an Open-Source Dashboard on Searcher-Builder Relationship & Searcher Dominance](#) by [winnster](#) presents the methodology behind [searcherbuilder.pics](#) and shares findings from a recent two-week period.
- [Dynamic Fee Solutions for AMMs](#) by [Neel Daftary](#) delves into how dynamic fees could enhance the profitability of LPs by mitigating the negative effects of LVR and impermanent loss.
- [Eyes and Orders: On Crypto Front-ends](#) by [Trace](#) explore the role of front-ends in the transaction supply chain and possible ways for them to monetize through PFOF and OFAs.
- [Thread](#) by [Trace](#)
- [Thread](#) by [Trace](#)

## Posts & threads

- [SaharAP announced](#) the completion of [FRP-25: Quantifying Fairness Granularity For First-Come-First-Serve \(FCFS\) Chains](#) with a summary of the research before the publication of their paper.
  - [YannickCrypto](#) published a [thread](#) detailing how they managed to save 66 ETH from an attack on an arbitrage bot.
  - [Shea Ketsdever announced](#) improvements to the UX that activates [Flashbots Protect fast mode
- . ](<https://docs.flashbots.net/flashbots-protect/quick-start#using-flashbots-protect>)
- [Ballsyalchemist](#) published a [post](#) that provides an overview of the proposals submitted from the Aztec community for a decentralized prover coordination mechanism.
  - [Danning Sui](#) published a [post](#) to highlight the sharp decrease in the amount of empty blocks as a result of the Merge and MEV-Boost.
  - [Chris Powers](#) published a [thread](#) summarizing their latest post; [Will MEV mitigation destroy on-chain liquidity?](#)
  - [bloXroute Labs](#) published a [thread](#) on relay incentivization as a reply to [The Pursuit of Relay Incentivization](#) by [Ballsyalchemist](#).
  - [Oisín Kyne announced](#) the first [block](#) sourced from MEV-Boost and proposed by a distributed validator on mainnet.

## Talks & Discussions

- [Archetype: Shea Ketsdever of Flashbots: The MEV Supply Chain](#) invites [Shea Ketsdever](#) for a deep dive into the MEV supply chain, SUAVE, OFAs, and the future of programmable privacy.
- [Uniswap Labs: Research Hours: Research Deep Think](#) hosted by [Xin Wan](#) invites [Danning Sui](#), [Raffi Sapire](#), [Tarun Chitra](#) and [Ariah Klages-Mundt](#) to discuss DeFi, stablecoins and [tldrresearch.ch](#).
- [CBER Forum: Scaling Ethereum: Rollup Economics](#) by [Barnabé Monnot](#) gives an overview of the economics associated with rollups, as well as data availability, censorship resistance and MEV.
- [Slides](#) by [Barnabé Monnot](#)
- [Slides](#) by [Barnabé Monnot](#)

- [Scraping Bits](#):
- [Rollup Block Production MEV And Isolated Lending w/ Cog](#) invites [ControlCplusControlV](#) to talk about MEV, DeFi and L2s.
- [From Military To Web3 Whitehat: Strategies For Bug Hunting](#) invites [riptide](#) to discuss how to succeed as a whitehat with bug hunting and auditing.
- [Rollup Block Production MEV And Isolated Lending w/ Cog](#) invites [ControlCplusControlV](#) to talk about MEV, DeFi and L2s.
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- [The Machine Room Ep.1 ft Chorus One, SenseiNode & NodeSet](#) hosted by [StakeWise](#) invites [Chorus One](#), [NodeSet](#) and [SenseiNode](#) to discuss their staking operations, MEV-Boost, geographic decentralization, LSTs and more.

## Other

- [Ethereum Mempool Dashboard](#) by [Toni Wahrstätter](#) provides insights into Ethereum's mempool, exclusive orderflow, and the actors involved.
- [Post](#) by [Toni Wahrstätter](#)
- [Post](#) by [Toni Wahrstätter](#)
- [MEV Sandwich Trades](#) by [hildobby](#) showcases metrics for single-block sandwiches across DEXes.
- [Thread](#) by [hildobby](#)
- [Thread](#) by [hildobby](#)
- [Allow honest validators to reorg late blocks](#) by [Michael Sproul](#) has been added to the [Ethereum consensus spec](#) and allows validators to purposefully reorg the last block if they saw that it was published late.
- [Thread](#) by [Michael Sproul](#)
- [Thread](#) by [Michael Sproul](#)
- [Bid adjustment](#) by [Niclas Blomberg](#) is an experimental feature for the [ultra sound relay](#) that adjusts the bid to the second highest and capture the difference.

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