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

- [Announcing Our New SUAVE Testnet: Toliman](#) by [@dmarz](#) presents the [SUAVE Toliman](#) testnet, enabling more powerful and private Solidity coprocessing via EIP-712 and TEE Kettles.

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

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- [Introducing: So Extra by Eden Network](#) by [Luke Lichtenstein](#) presents [So Extra](#) which leverages confidential compute requests on SUAVE to auction off the extra data field in Ethereum blocks.

- [Thread](#) by [Eden Network](#)

- [Thread](#) by [Eden Network](#)

- [Post](#) by [Eden Network](#)

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

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

- [Thread](#) by [Eden Network](#)

- [Thread](#) by [Eden Network](#)

- [Post](#) by [Eden Network](#)

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

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

- [Closing the Intel TDX Page Fault Side Channel, or, The Case for TDExit-Notify](#) by [@PradyumnaShome](#) examines vulnerabilities in SGX and countermeasures to prevent similar attacks in TDX.

- [Mechan-stein (alt. Franken-ism)](#) by [Mike Neuder](#) explores how combining existing proposals that target different outcomes, like transparent MEV markets and censorship resistance, may lead to a more complete solution.

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

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- [On Attestations, Block Propagation, and Timing Games](#) by [Toni Wahrstätter](#) discusses the evolution of timing games and the impact on attesters through a case study of node operators from Lido, Coinbase, and Kiln.

- [Post](#) by [Toni Wahrstätter](#)

- [Post](#) by [Toni Wahrstätter](#)

- [On Proposer Timing Games and Economies of Scale](#) by [Toni Wahrstätter](#) explores how timing games by proposers are influenced by economies of scale, enabling larger entities to delay their proposals longer without increasing the risk of a reorg.

- [Trustless Interoperability between Rollups: Landscape, Constructions, and Challenges](#) by [Marshall Vyletel Jr](#) and [Wei Dai](#) survey the trustless interoperability landscape by defining and discussing six levels of interoperability solutions between rollup ecosystems.

- [Thread](#) by [Marshall Vyletel Jr](#)

- [Post](#) by [Wei Dai](#)

- [Thread](#) by [Marshall Vyletel Jr](#)

- [Post](#) by [Wei Dai](#)

- [Multiple Concurrent Proposers IS Preconfirmation](#) by [Stanley He](#) examines the similarities between MCP and preconfirmations in terms of MEV, censorship resistance, and block building.

- [Thread](#) by [Stanley He](#)

- [Thread](#) by [Stanley He](#)

- [The Road to PBS: MEV-Boost++, Optimistic Relays, and TEE-Boost](#)by [100y](#) outlines some of the proposed solutions to eliminate the need for relays in MEV-Boost, including [TEE-Boost](#).

- [Thread](#) by [100y](#)

- [Thread](#) by [100y](#)

- [From Public To Private Transactions In Ethereum: The Flippening](#) by [Blocknative](#) discusses the implications of private transactions now consuming more than half of Ethereum's block space.

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

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

- [Censorship Insurance Markets for BRAID](#) by [Jonah Burian](#) and [Ben Levy](#) proposes censorship insurance markets to mitigate the liquidity requirements of [BRAID](#).

- [Blockchains are BAD (for execution)!](#) by [joshua](#) explores various sequencing methods to ensure censorship resistance of user transactions, including the use of TEEs.

- [There Is Nothing New Under The Sun](#) by [joshua](#) details the increasing overlap of searchers and solvers and argues that solvers will need to innovate or face obsolescence.

- [wtf is settlement](#) by [Lamby](#) and [krane](#) discuss the concept of settlement by contrasting definitions from traditional finance with modular blockchains.

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

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

- [The Composable Network: Unifying Chains with Javelin, the first Superbuilder](#)by [NodeKit](#) details the Javelin Superbilder designed for atomic execution and synchronous composability across rollups.

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

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

- [Metamorphosis of Jaredfromsubway.eth: cunninger Jared 2.0 with more layers](#)by [EigenPhi](#) explores the evolving strategies used by Jaredfromsubway to perform sandwich attacks on Uniswap V3.

Posts & Threads

- [@brock](#) published a [thread](#) detailing the creation of [ChatNFT](#), and how building on SUAVE reduces the need for offchain infrastructure and helps streamline secret management for dapps.

- [@sxysun](#) published a [post](#) sharing two application ideas for anyone who would like to get started building SUAPPs and using TEEs.

- [Phala Network](#) published a [thread](#) sharing highlights from [WTF is TEE?](#), including the latest advancements and use cases of TEEs in Web3.

- [Alex Nezlobin](#) published a [thread](#) detailing a study on adverse selection in DeFi by analyzing the execution quality of uninformed transactions relative to arbitrage transactions.

- [Toni Wahrstätter](#) published a [post](#) to highlight the decline in the number of reorgs since Dencun, and how the first slot in an epoch has the highest probability of being reorged.

- [bolt](#) published a [thread](#) announcing the alpha release of[bolt](#) to enable sub-second preconfirmations with trustless proposer commitments.

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

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

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

Talks & Discussions

- [Flashwares vi: it's Li](#)t invites [Harry Bairstow](#) to present [Lit Protocol](#)'s approach to TEEs (SEV-SNP) and threshold encryption.

- [MEV-Boost community call #10](#) hosted by [@ralexstokes](#) invited the MEV-Boost community to discuss [mev-boost v1.8 1](#), [TEE-Boost](#), and [EIP-7732](#).

- [Agenda](#) by [@ralexstokes](#)

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- [Recording](#) from [Frontiers](#) by [Paradigm](#) is available with talks on high-performance crypto infrastructure, including [Reth](#), [Rbuilder](#) and [MEV RS](#).

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

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

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

- [DeFi in the MEV Era](#) by [Ciamac Moallemi](#) provides an overview of LVR and how it relates to block times and multi-block MEV.

- [Thread](#) by [Ciamac Moallemi](#)

- [Thread](#) by [Ciamac Moallemi](#)

- [Indexed Podcast](#): [Account Abstraction & ERC-4337](#) with [Boxer](#), [@sui414](#) and [hildobby](#) invites [Kofi](#) for a conversation on account abstraction and [ERC-4337](#).

- [ePBS (EIP-7732) breakout room #7](#) hosted by [Potuz](#) covered the latest progress and implementation status of [EIP-7732](#).

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

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- [The Rollup](#): [WTF is MEV? Pre-Confs & MEV Commit Explained](#) invites [Murat Akdeniz](#) to discuss block building, MCP, and [mev-commit](#) as a market for preconfirmations.

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

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

- [Infinite Jungle: ACDE #139: EILI5 ePBS Edition](#) by [Christine Kim](#) provides an overview of PBS and the motivation behind ePBS.

Other

- [Stargazing 1: Check Your Harness](#) by [@cryptrowanderer](#) provides an updates on SUAVE including the [Toliman release, SUAVE Office Hours](#), and more.

- [Brontes](#) by [Sorella Labs](#) is a blockchain analytics pipeline built on top of [Reth](#) with structured onchain, and offchain data for data preprocessing.

- [Presentation](#) by [Ludwig](#) and [Will Smith](#) at [Frontiers](#)

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- [Request for SUAPP: TEE proof of attestation verification](#) by [@mateusz](#) outlines a request for Sirrah to support verification of TDX attestations in addition to SGX.

- [lily's mev reading list](#) by [@Lilyjjo](#) is a curated list of resources designed to provide an introduction to MEV for engineers who do not have a background in finance or economics.

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