

hiya! in response to [this tweet](#), i wrote down a non-exhaustive list of resources for cross-domain MEV & aggregated previous internal lists i created. welcome additional contributions <3

Essential

- [\[2112.01472\] Unity is Strength: A Formalization of Cross-Domain Maximal Extractable Value](#)
- [Flashbots Research Workshop #7: Cross-domain MEV AMA - YouTube](#) subsequent workshop on the paper
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- [The multichain world is centralized](#) - studying cross-domain MEV - Alex Obadia (Flashbots) - YouTube
- [Endgame](#) by [@vbuterin](#)
- <https://westerngate.xyz> by [@sam](#) & team
- [Pay To Win: Cheap, Crowdfundable, Cross-chain Algorithmic Incentive Manipulation Attacks on PoW Cryptocurrencies](#)

Cosmos

- <https://gateway.pinata.cloud/ipfs/QmWXkzM74FCiERdZ1WrU33cqdStUK9dz1A8oEvYcnBAHeo> Cosmos Atom 2.0 paper (see Interchain Scheduler)
- [whitepaper/whitepaper.pdf at main · anoma/whitepaper · GitHub](#) Anoma whitepaper
- [Heterogeneous Paxos and Multi-Chain Atomic Commits](#) by Isaac Sheff (Anoma)
- [OPODIS 2020 - Heterogeneous Paxos - YouTube](#)
- [Zenith Documentation](#) Mekatek's Zenith

Ethereum L2s:

- [SoK: Validating Bridges as a Scaling Solution for Blockchains](#)
- [MEVA 2 years in - Ben Jones \(Optimism\) - YouTube](#)
- [L2 sequencing and MEV - Ed Felten \(Arbitrum\) - YouTube](#)
- [MEV.Day MEV-aware design space for L2s and bridges panel - YouTube](#)

On oracles & cross-chain communication:

- SoK: Communication Across Distributed Ledgers, [paper](#), [video](#)
- [The tradeoffs of cross-chain communication](#) related article by Lakshman Sankar
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- Augur v2 [whitepaper](#) — for oracles
- [Overcommitted: MEV in message passing - James Prestwich \(Nomad\) - YouTube](#)
- Article on Nil foundation work building a trustless state verification across Ethereum-Solana, <https://blog.nil.foundation/2021/10/14/solana-ethereum-bridge.html>
- they have a few articles on building this bridge and the Mina-Ethereum bridge, very good
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- [Optimizing cross-chain swaps - Layer 2 - Ethereum Research](#)
- [HTLCs Considered Harmful - SBC '19 - YouTube](#), a talk by Dan Robinson on hash-time locked contracts and their downfalls
- [Outlining a standard interface for cross-domain ERC20 Transfers - EIPs - Fellowship of Ethereum Magicians](#)
- [Defining L2 Interoperability: A First Attempt - Layer 2 - Ethereum Research](#)

On bridges:

- [James Prestwich : Building Bridges, Not Walled Gardens - YouTube](#) by James Prestwich

- [Clusters: how trusted & trust-minimized bridges shape the multi-chain landscape](#) by Mustafa Al Bassam
- [MEV at the liquidity layer of bridges - Arjun Bhuptani \(Connex\) - YouTube](#)
- Other projects' designs to check out — although you'll find they're all just different designs on the cross-ledger communication tradeoff
- <https://hop.exchange/whitepaper.pdf> Hop bridge whitepaper
- [Chris Whinfrey : Layer-2 Composability and Communication - YouTube](#)
- [Chris Whinfrey : Layer-2 Composability and Communication - YouTube](#)
- https://layerzero.network/pdf/LayerZero_Whitepaper_Release.pdf LayerZero whitepaper
- [Delta-Solving.The.Bridging-Trilemma \(3\).pdf](#)
- [Delta-Solving.The.Bridging-Trilemma \(3\).pdf](#)
- [Introducing the Cross-Chain Interoperability Protocol \(CCIP\)](#)
- [End-to-End Workflow - Celer Inter-chain Message \(IM\)](#)
- <https://wiki.polkadot.network/docs/learn-crosschain>
- [XCM: The Cross-Consensus Message Format | by Gavin Wood | Polkadot Network | Medium](#)
- [whitepaper/whitepaper.pdf at main · anoma/whitepaper · GitHub](#)
- <https://youtube.com/channel/UCfhR0KvmbV0yEkxgKnVvUDg> ,Burning Bridges podcast by Arjun from Connex
- <https://hop.exchange/whitepaper.pdf> Hop bridge whitepaper
- [Chris Whinfrey : Layer-2 Composability and Communication - YouTube](#)
- [Chris Whinfrey : Layer-2 Composability and Communication - YouTube](#)
- https://layerzero.network/pdf/LayerZero_Whitepaper_Release.pdf LayerZero whitepaper
- [Delta-Solving.The.Bridging-Trilemma \(3\).pdf](#)
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- <https://youtube.com/channel/UCfhR0KvmbV0yEkxgKnVvUDg> ,Burning Bridges podcast by Arjun from Connex

Misc

- [dAMM, an L2-Powered AMM. A DeFi-friendly L2 AMM | by StarkWare | StarkWare | Medium](#)
- [Cross-rollup DEX with smart contracts only on the destination side - Layer 2 - Ethereum Research](#) by Vitalik
- [Cross-shard DeFi composability - Sharded Execution - Ethereum Research](#) Oct '19 :')
- <https://twitter.com/VitalikButerin/status/1479501366192132099?t=q65E4hRZ2HmG0yySUF4AaQ&s=19>

Vitalik on multi-chain/cross-chain

- <https://www.binance.org/en/blog/bsc-2022-build-and-build/> Binance L2s yay
- [Multi-chain strategy - Protocol Development - Compound Community Forum](#)
- many of the resources in here: <https://github.com/flashbots/mev-research/blob/main/FRPs/completed/FRP-16.md...>

threads in this forum:

- [We're going to estimate a lower bound of cross-domain MEV](#)