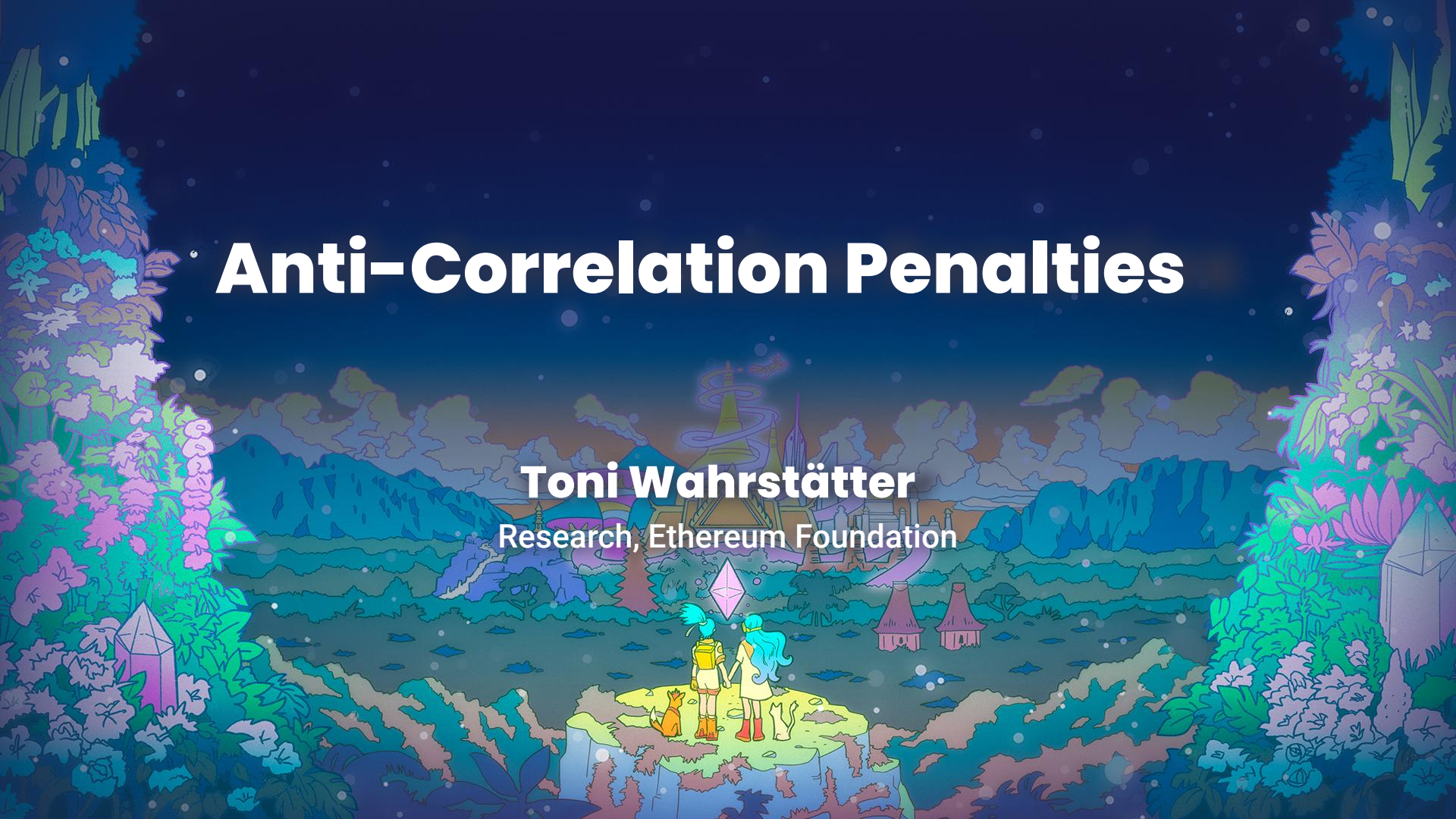


Anti-Correlation Penalties

Toni Wahrstätter
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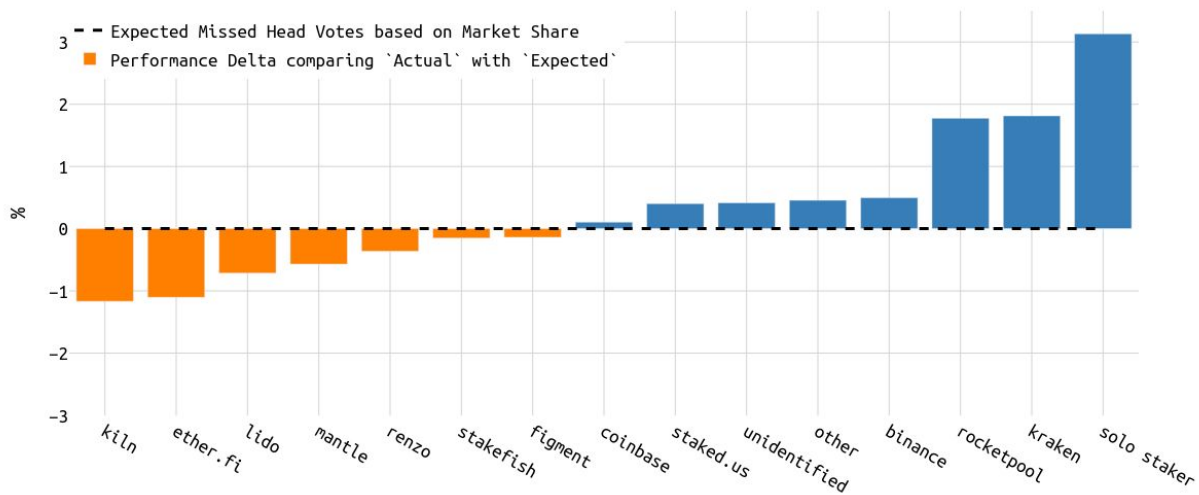
Section 1

Today's problem

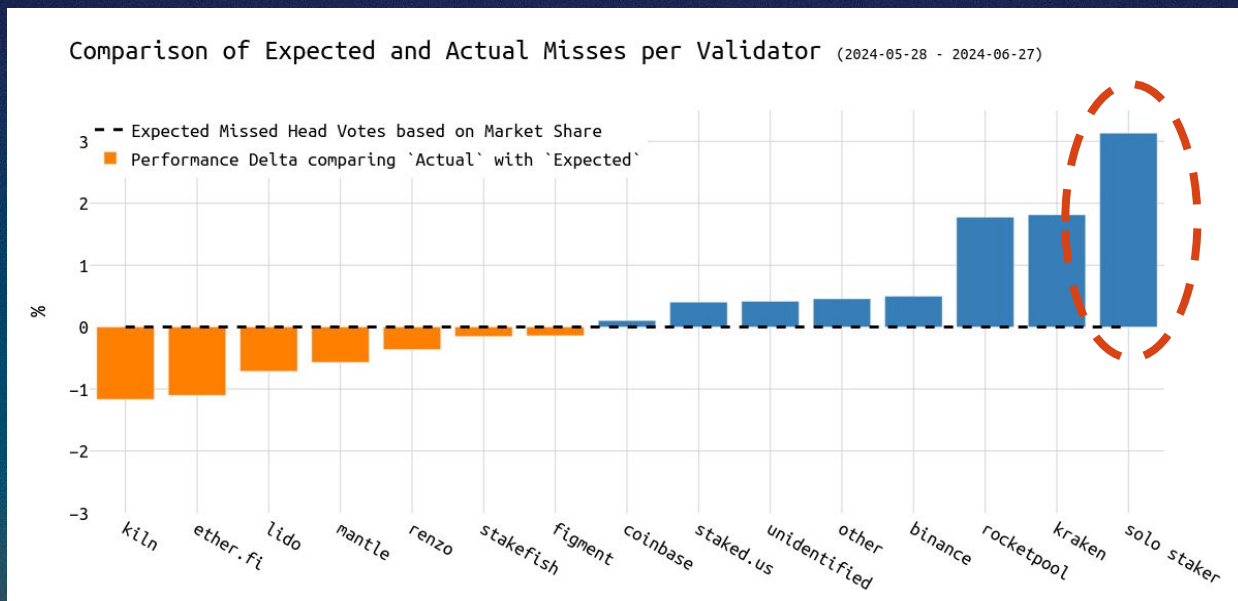


The Struggle of being a Solo Staker

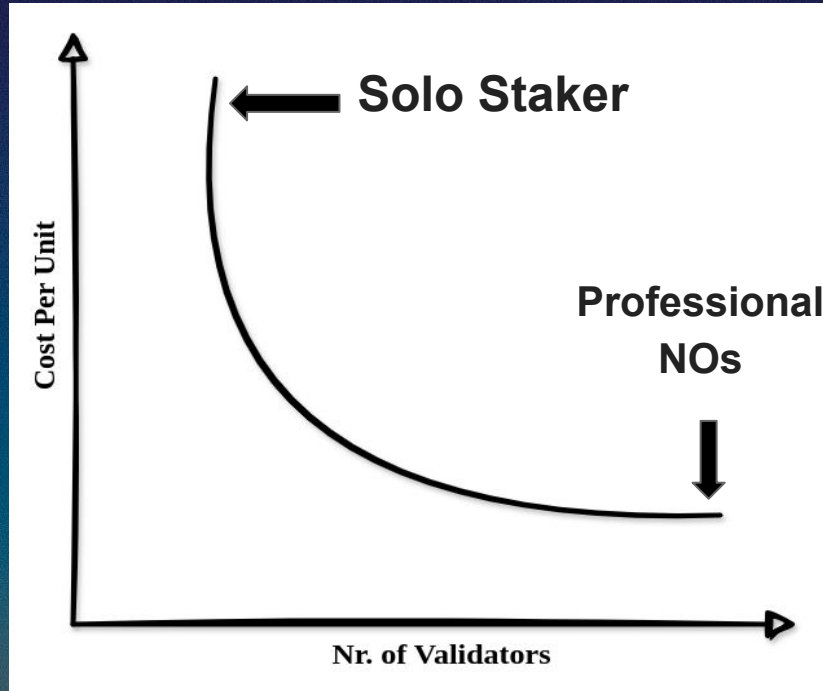
Comparison of Expected and Actual Misses per Validator (2024-05-28 - 2024-06-27)



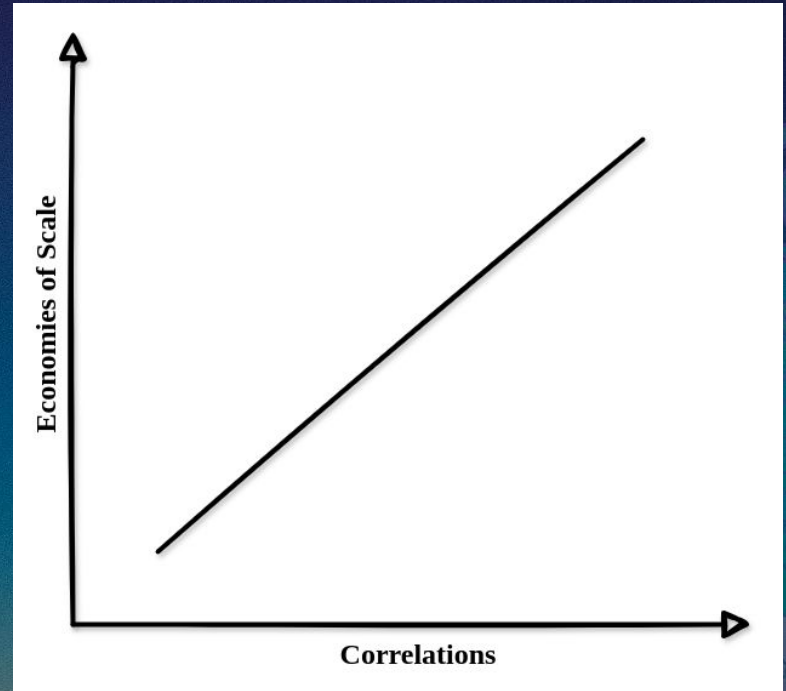
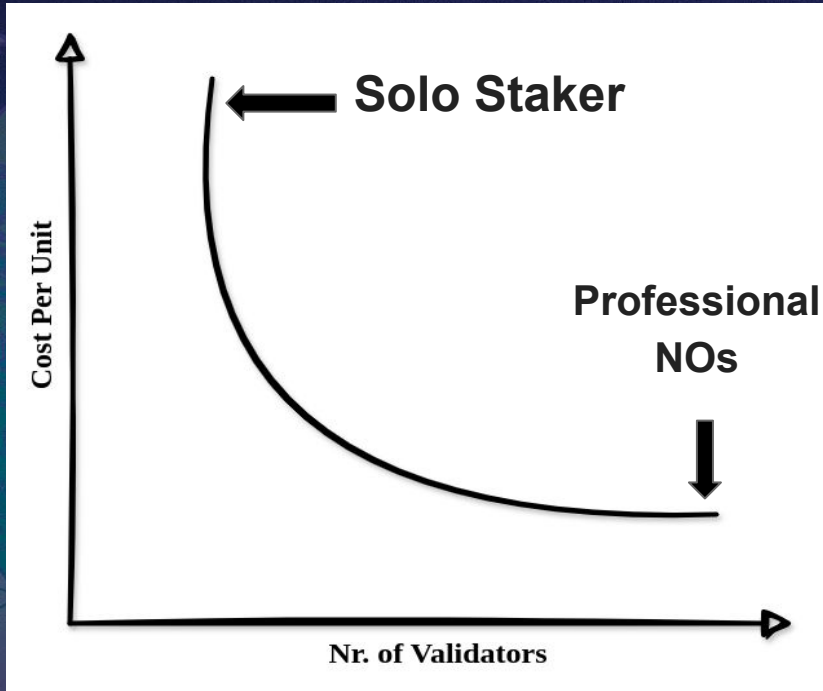
The Struggle of being a Solo Staker



Economies of Scale



Economies of Scale





Section 3

EIP-7716

Anti-Correlation Attestation Penalties



Ethereum Improvement Proposals

All Core Networking Interface ERC Meta Informational

 Draft

Standards Track: Core

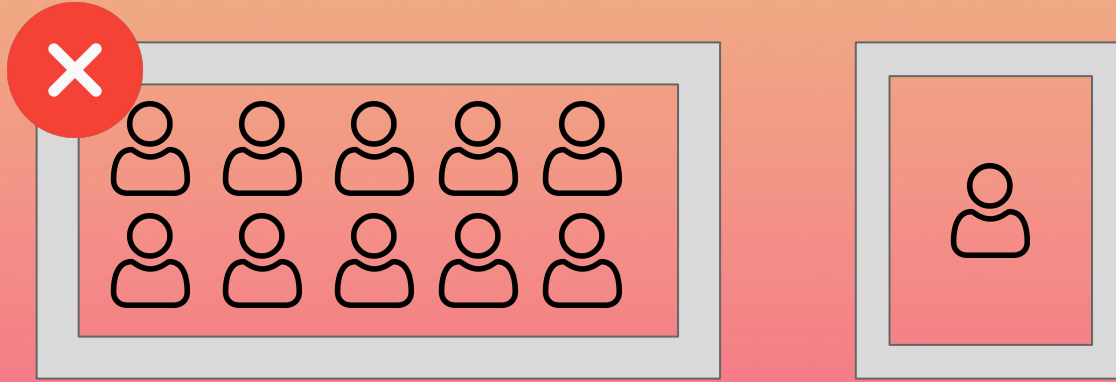
EIP-7716: Anti-correlation attestation penalties

Adjust penalties for missed attestations based on in-slot correlation of missed attestation

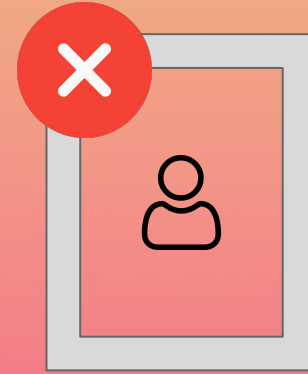
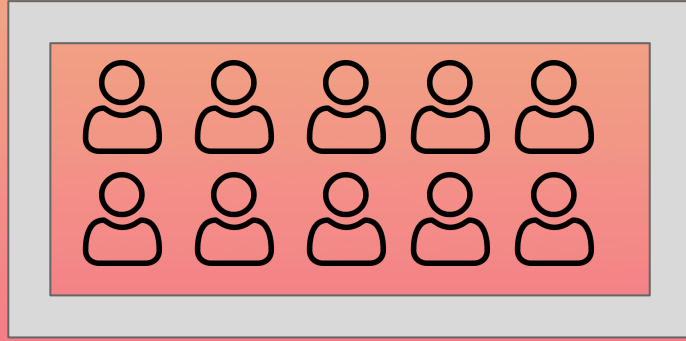
Authors daplion (@daplion), Toni Wahrstätter (@nerolation), Vitalik Buterin (@vbuterin)

Created 2024-05-25

Discussion Link <https://ethereum-magicians.org/t/eip-7716-anti-correlation-attestation-penalties/20137>



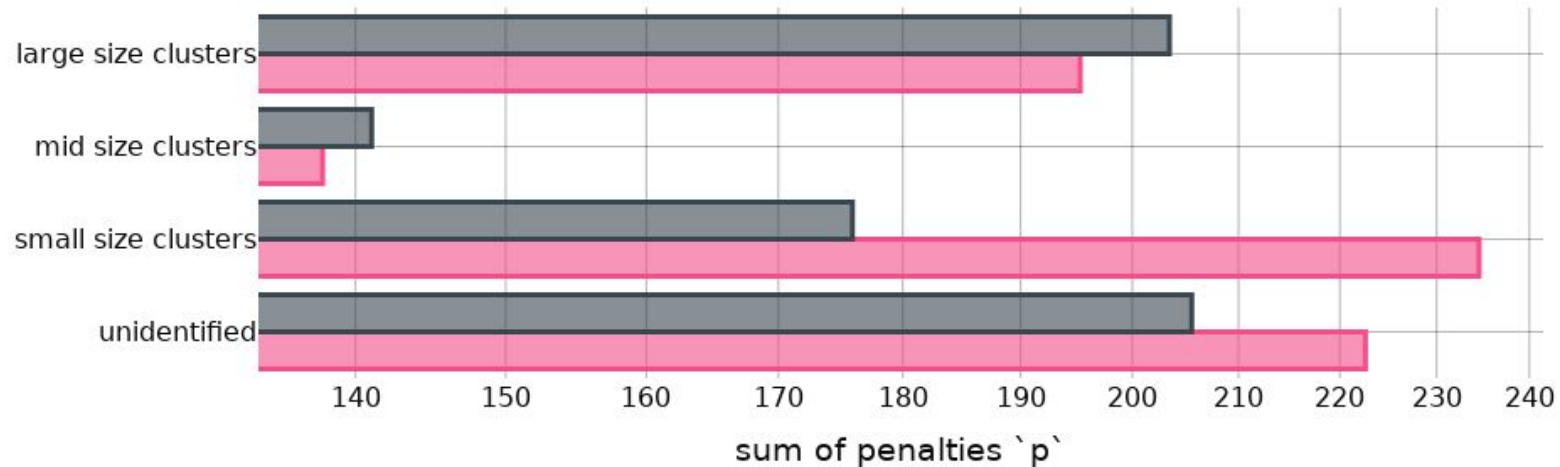
High correlation → High Penalty



Low correlation → Low Penalty

Avg. Correlation Penalties - Validator Clusters

current situation
correlation penalties



Thank you!

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