KAVIAR
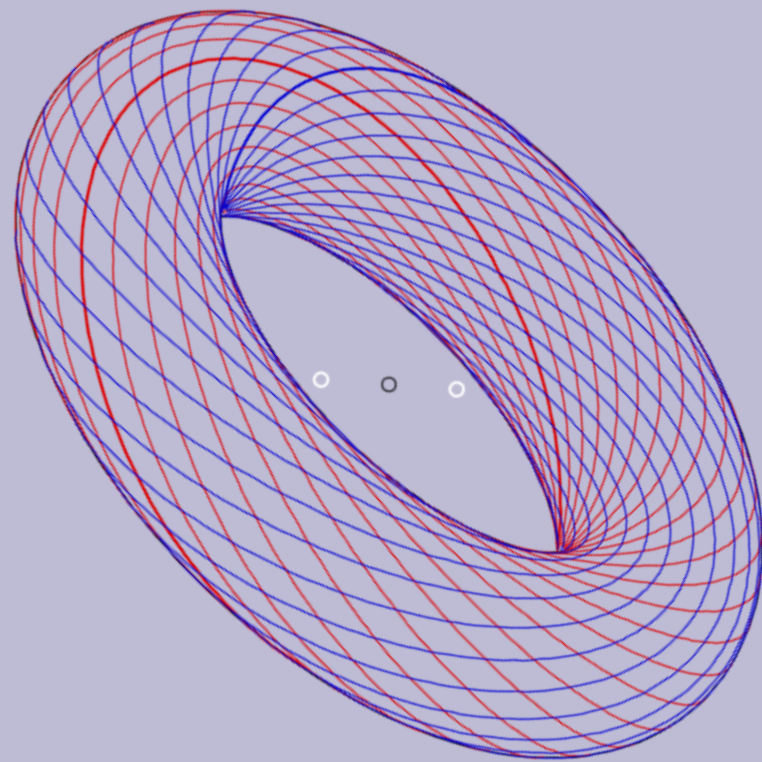
Cross-chain anonymous transfer and donations with private pools (mixer)

Ren Kunepng | Mohak Malhotra | Kenneth Goh | Ramon Garcia | Arindam Singh

STATE OF THE PROBLEM

- **Privacy**
  Lack of privacy in cross-chain bridges.

- **Compliance & Regulations**
  Privacy enabling solutions don't comply with regulations and enable bad actors to perpetuate fraud and illegal activities.

- **Lack of anonymity in donations & quadratic funding**
  Corruption in bias-free judgment of projects due to influence from widely-known donors

WHAT'S KAVIAR?

- Kaviar is a cross-chain **anonymous transfer** with **ZKPs** and **quadratic funding** platform enhanced by **privacy pool** (compliant mixers) with allowlists, and blacklists for **proof of innocence**.

[1] Buterin, V. (2023). Blockchain Privacy and Regulatory Compliance: towards a practical equilibrium. papers.ssrn.com. https://doi.org/10.2139/ssrn.4563364

WHAT'S KAVIAR?

Ø Bridge Agnostic: Cross-chain transfers enabled by **AXELAR**

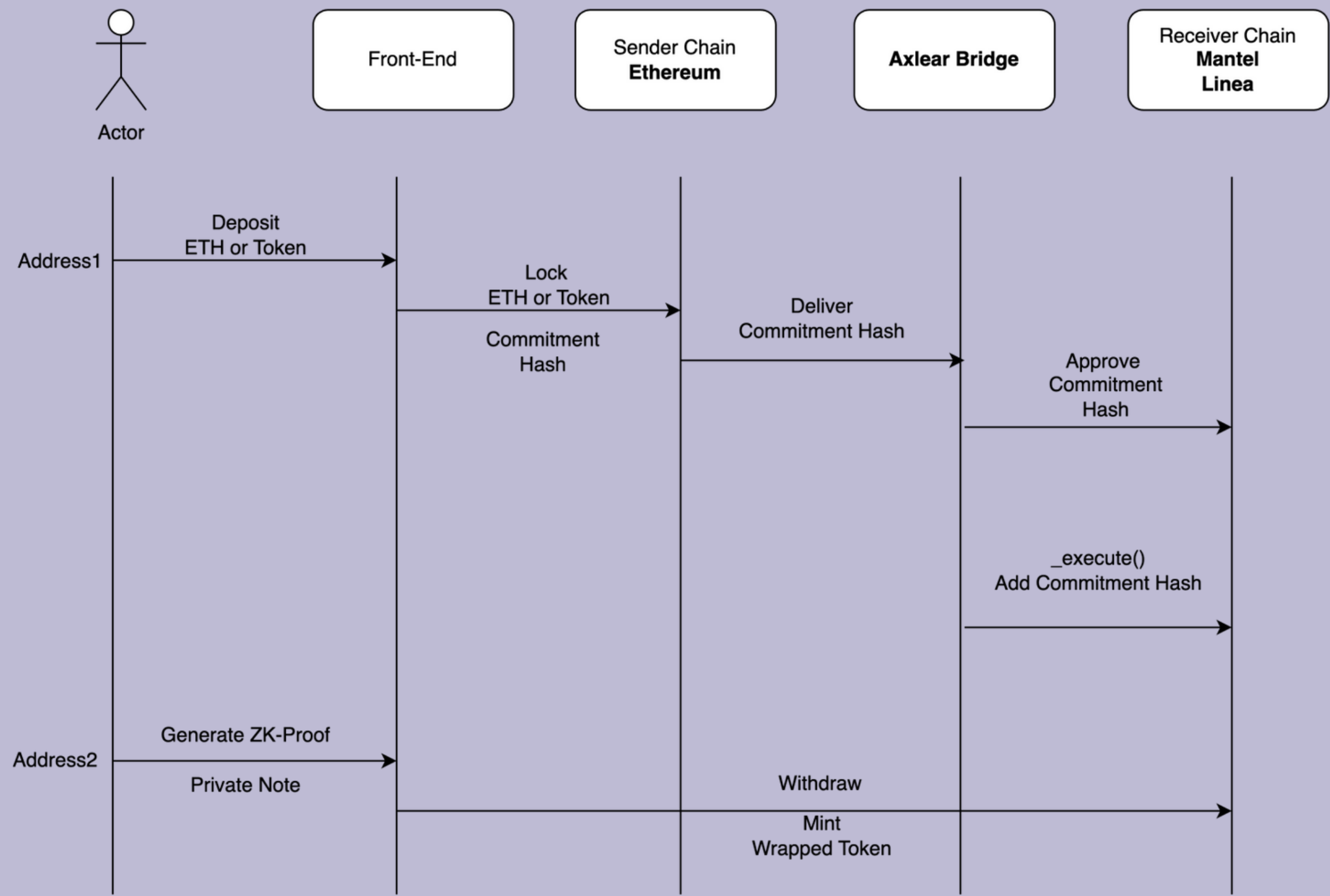Ø Cross-chain compatibility with **MANTLE** **Linea**

Ø Cross-chain mixer with **Privacy pool** implemented with ZKPs[1]

Ø Comprehensive blockchain inter-operability ensured through our team's PHD research[2]

[2] Interoperability in Blockchain: a survey. (n.d.). IEEE Journals & Magazine | IEEE Xplore. https://ieeexplore.ieee.org/abstract/document/10123097/

ARCHITECTURE

Secret Onsen

Introduction ▾

DEPOSIT

WITHDRAW

Network From
Ethereum Network ▾

Network To
Mantle Network ▾

Amount
0.001 Ether ▾

UPLOAD SECRET TEXT FILE

WITHDRAW NOW!

withdraw ethereum mantle 1000000000000000
0x29a395eb010ae25a759854e857f4f8087ef670c2ab2fb7422e869f2ab4e26abf

Watch on ▶ YouTube

FUTURE WORK

- **Broader cross-chain ecosystem integrations**.

- **Improved privacy pool features.**

- **UX improvement**

- **Enhanced DAO-based governance for allowlist & blacklists**