

I'll make this post a community wiki, people can update this and <https://github.com/ethereum/wiki/wiki/Alternative-blockchains,-randomness,-economics,-and-other-research-topics>.

The wiki includes (with more details for each in the wiki):

- Dfinity
- Ziliqa
- PHANTOM and SPECTRE

RFC: SPECTRE and PHANTOM by Aviv Zohar and Yonatan Sompolinsky.

Introductory articles:

- <https://medium.com/@avivzohar/the-spectre-protocol-7dbbebb707b5>
- <https://www.coindesk.com/spectre-creators-propose-phantom-blockchain-protocol/>

I just read these articles, I haven't had time to read the papers yet.

Papers:

- PHANTOM: <https://eprint.iacr.org/2018/104.pdf>
- SPECTRE: <https://eprint.iacr.org/2016/1159.pdf>

I see parallels between the discussions we have had on DAG design and voting. Thanks [@ChosunOne](#) for suggesting to read this.

Changelog:

- added Dfinity, Truebit, PHANTOM and SPECTRE with some details on each
- added other blockchains, e.g. Cardano, Algorand, OmniLedger
- added Snowflake to Avalanche: A Novel Metastable Consensus Protocol Family for Cryptocurrencies