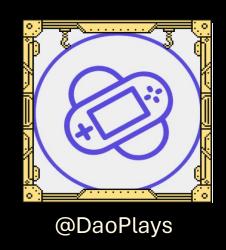


# Decentralised and Permissionless: Shorts and Leverage for AMMs



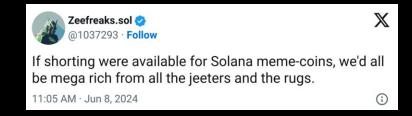






#### The Problem

AMMs have been around a long time.. and yet:



Going short or entering leveraged long positions still primarily via centralised exchanges

Decentralised platforms that do offer leverage or shorts are not permissionless – they only provide curated lists of accepted tokens (e.g. flash.trade)



We have built a decentralised, permissionless system for borrowing from an AMM that solves these issues

Demo App running on Solana devnet: <a href="https://www.daoplays.org/bonkathon2024">https://www.daoplays.org/bonkathon2024</a>

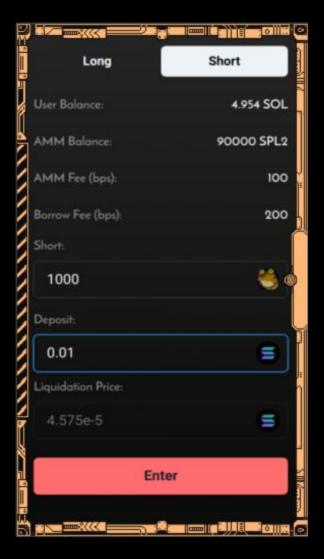
Source code for front end: <a href="https://github.com/daoplays/blog/tree/main/components/bonkathon">https://github.com/daoplays/blog/tree/main/components/bonkathon</a>

Source code for AMM: <a href="https://github.com/daoplays/solana\_examples/tree/master/shorts">https://github.com/daoplays/solana\_examples/tree/master/shorts</a>
Source code for Options: <a href="https://github.com/daoplays/solana\_examples/tree/master/options">https://github.com/daoplays/solana\_examples/tree/master/options</a>

Slide deck: <a href="https://github.com/daoplays/blog/raw/main/components/bonkathon/Presentation.pdf">https://github.com/daoplays/blog/raw/main/components/bonkathon/Presentation.pdf</a>







#### Borrow From The AMM

- AMM allocates fraction of its liquidity to a short base pool and a long quote pool for borrowed positions
- User specifies the deposit they want to pay for the position, setting the amount of leverage
- Larger deposit -> More headroom before position can be liquidated but more capital at risk
- Borrow Fees are annualised The longer you hold the position the larger the fee. Fees collected when position is exited and go to liquidity providers



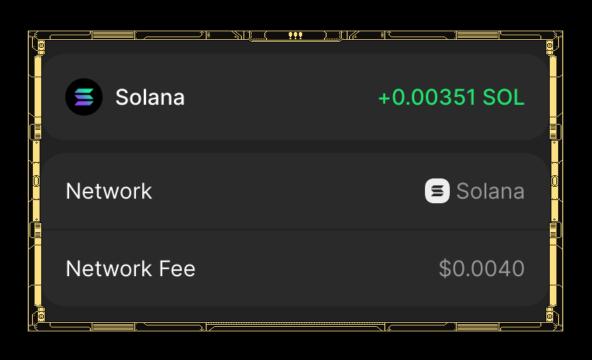


#### Powered By Metaplex Core

- When borrowing from the AMM the user receives a core asset as a receipt
- On-chain attributes contain all the metadata describing the position
- Whomever owns that asset can exit the position they have value and are tradable in their own right!
- Any wallet or marketplace that supports Core will support our borrowed positions out of the box







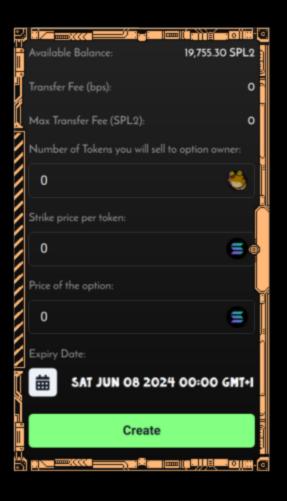
#### Liquidation Is Decentralised

- Any user can liquidate a borrowed position once it passes its liquidation price.
- They earn the SOL used as rent for the core asset (~0.0035 SOL per liquidation) as a fee.
- Could provide other platform specific rewards to further engage community





# Core Is A Powerful Tool



#### Options Trading Program

- Core asset encodes a Call or Put option
- Option metadata stored as on-chain attributes
- Owner can execute it at any point
- Can be traded on any Core supported marketplace
- After expiry creator can reclaim assets in escrow.





# Path To Market



- Initial launch of both options and leveraged trading on MemeFi platform Let's Cook.
- Invite selected DeFi influencers, Developers, and Early Adopters to test the platform and provide feedback.
- Refine product and build initial trust within Let's Cook community
- Provide additional rewards (e.g. \$SAUCE) for liquidators and liquidity providers on Let's Cook to bootstrap AMM pools similar to platforms like Meteora.

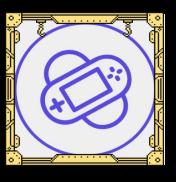


• Partnerships with existing DeFi Projects (BonkSwap, Flux, Raydium etc) to bring leveraged trading to their platforms





#### The Team



#### @DaoPlays

- Runs a Solana dev blog at daoplays.org started in 2022
- Developing Solana meme coin token/hybrid launchpad letscook.wtf
- Built crypto projects include push-your-luck dungeon game sol-dungeon.com
- Ph.D. in Astrophysics from Cambridge University with 5000+ citations from published papers and now works in quantitative TradFi.



#### @DaveR

- Contributing to the Solana ecosystem since late 2021. The first NFT I owned I made myself on SolanArt.
- Established a Solana community and crowdfunded a validator in 2022 (Sentries).
- Has won Solana Hackathon prizes (Gaming) and Honorable Mentions (Consumer).
- Lawyer. Operates own legal office.



#### @frngs

- Frontend Developer and Technical Project Manager with 4+ years of experience leading crossfunctional teams.
- Founded Deez Jobs (<u>deezjobs.xyz</u>), a decentralized freelancing platform built on the Solana blockchain, and Coterie Labs (<u>coterie-labs.gitbook.io</u>, a web/software design and development solutions.



# Many Thanks to the organizers! We look forward to the next

