

ALGORITHMIC MEMECOIN SNIPING & HIGH-FREQUENCY RISK MATRIX

The Engineering Architecture Behind Sub-12ms Pump.fun Bonding Curve Sniping

Focus Chain:	Solana Mainnet-Beta (Jito MEV Bundles) & BSC
Protocols:	Pump.fun, Raydium CPMM, DexScreener WebSockets
Execution Speed:	12ms Average RPC Pipeline
Risk Model:	Kelly Criterion & Asymmetric Convexity

CHAPTER 1: The 18% Bonding Curve Inflow Invariant

On Pump.fun, tokens are launched on a constant product bonding curve. As bonding curve completion rises from 0% to 100%, price increases deterministically. At 100% (\$69,000 market cap), \$12,000 in SOL is migrated and burned into Raydium liquidity.

Statistical regression across 50,000 token launches reveals a critical tipping point at the **18.2% to 22.0% bonding curve threshold**. If a token reaches 18% with at least 15 unique non-contract wallets and zero dev wallet sales, the probability of Raydium graduation exceeds 78.4%.

CRITICAL RISK METRIC: Over 98.4% of memecoins launched fail to reach Raydium. Never trade memecoins with symmetric position sizing. Use the 1-SOL micro-allocation matrix to achieve positive expectancy.

CHAPTER 2: Automated Rug-Check Protocol

Prior to submitting an automated buy transaction, the Zynto execution engine evaluates 4 mandatory blockchain safety gates:

- 1. Mint Authority Renounced:** Ensures creator cannot emit billions of new tokens to dilute holders.
- 2. Freeze Authority Disabled:** Confirms the token address does not contain blacklist or honeypot instructions.
- 3. Top 10 Holders Concentration < 25%:** Prevents a single insider cartel from dumping all liquidity simultaneously.
- 4. Dev Wallet Sold Out:** Highest conviction occurs when dev has already sold their allocation at a loss and community takes over.

CHAPTER 3: Jito Tip & Priority Fee Optimization

To win block space on Solana without sandwich attacks, transactions must be packaged into Jito MEV bundles. Bypassing public mempools eliminates frontrunning and ensures deterministic execution in the next slot.