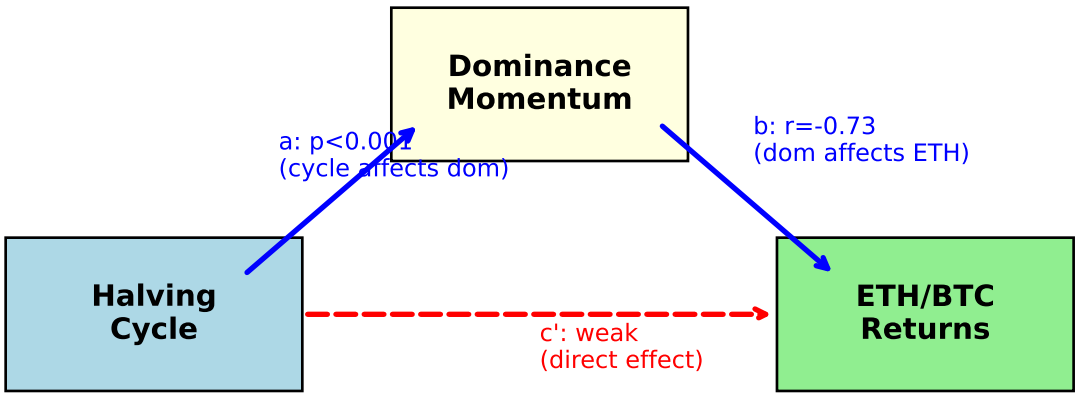
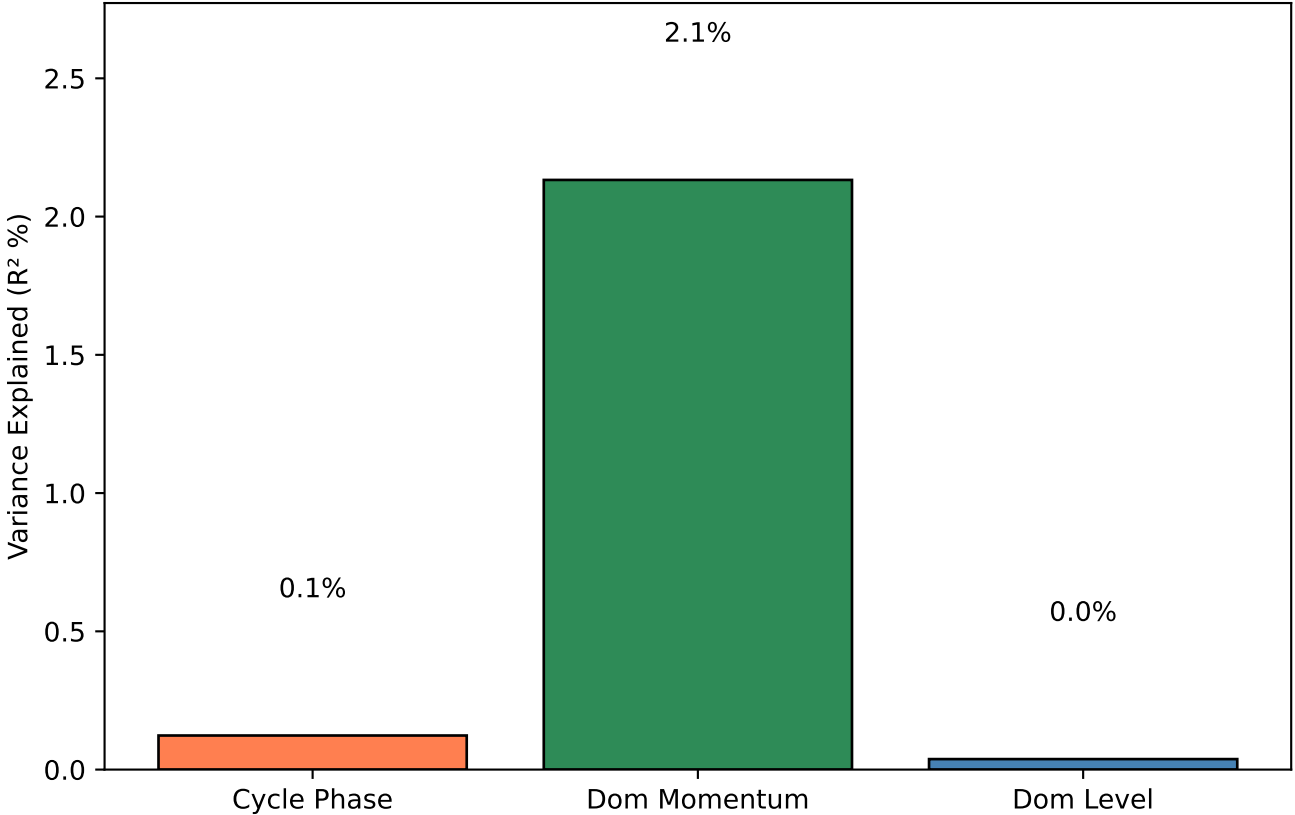


Study 1E: Mediation Analysis - Halving Cycle vs Dominance

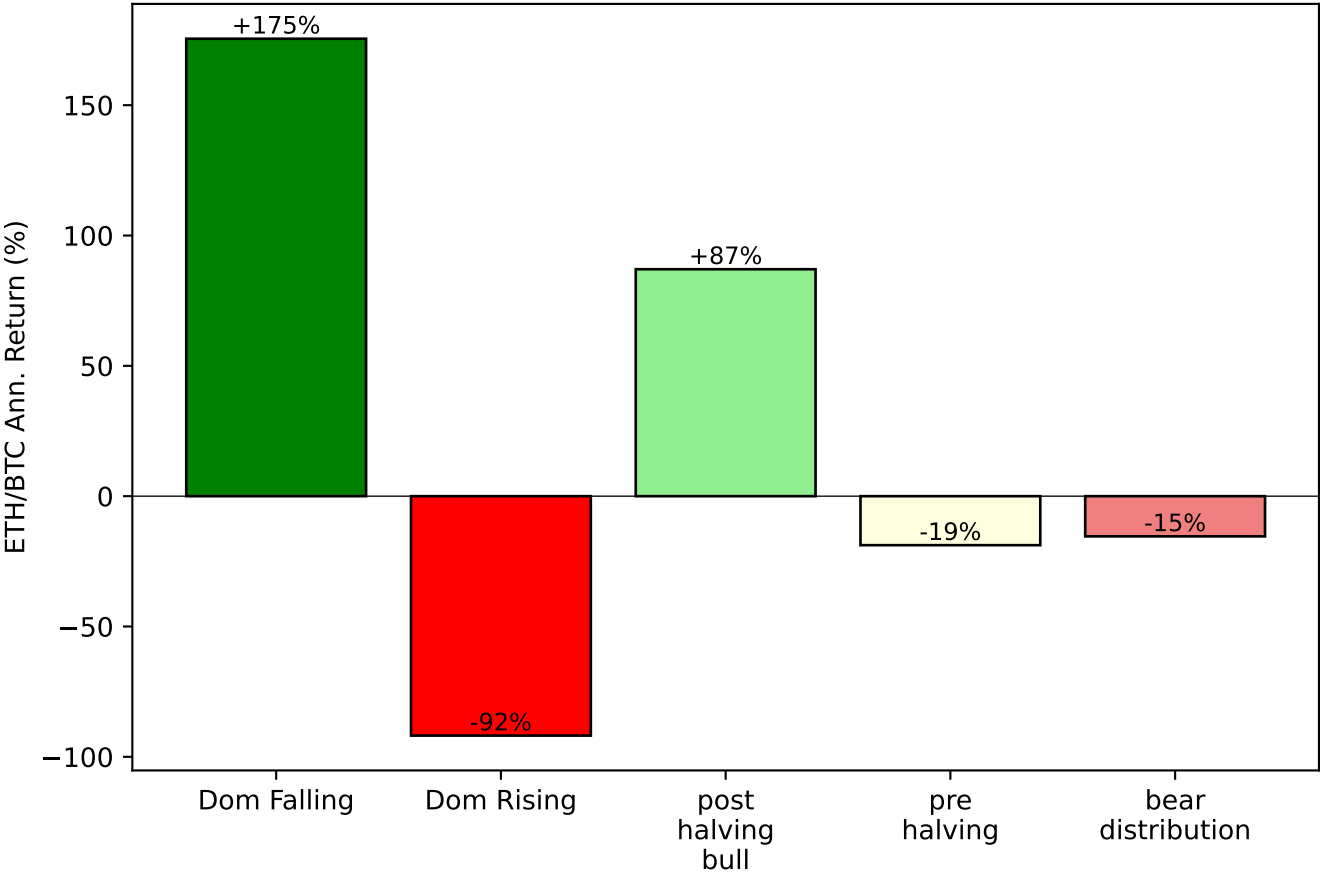
Causal Mediation Model



Factor Importance: Variance Explained



Returns by Factor



Current Signal Dashboard

CURRENT MARKET SIGNALS

Date: 2025-12-10  
BTC Dominance: 56.8%  
7d Change: -0.70%  
30d Change: -0.87%  
Cycle Phase: bear\_distribution  
Days from Halving: 599

SIGNALS:

- Cycle Phase: BEARISH
- Dom Momentum 7d: BULLISH
- Dom Momentum 30d: NEUTRAL
- Dom Level: NEUTRAL

ASSESSMENT:  
Bullish: 1/4  
Bearish: 1/4  
Weighted Score: +2  
  
→ NEUTRAL/MIXED

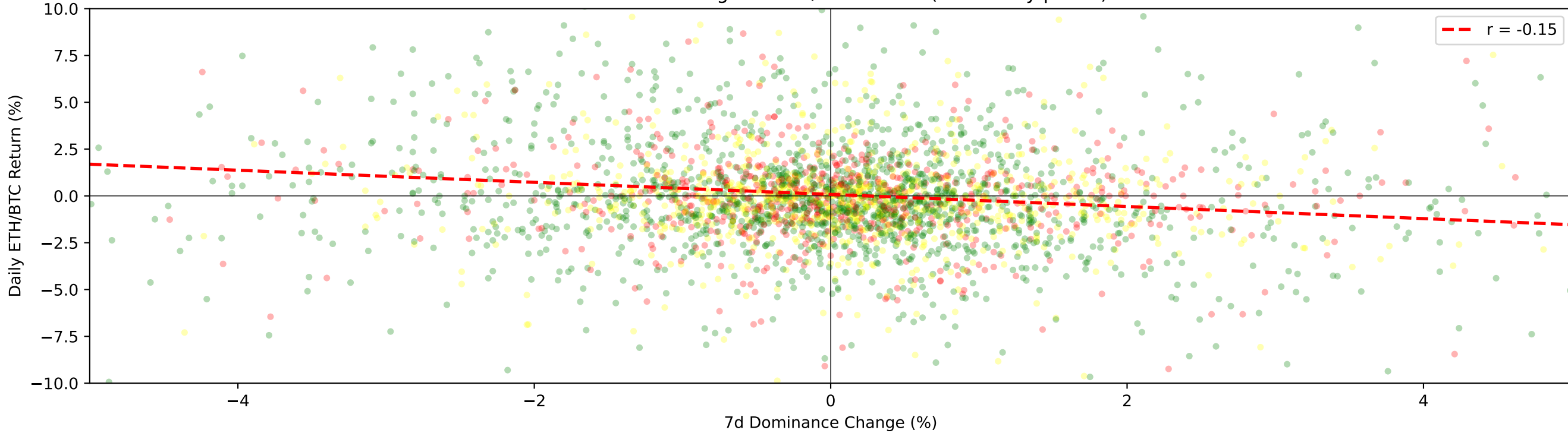
BTC Dominance Over Time (colored by halving phase)



ETH/BTC Ratio Over Time

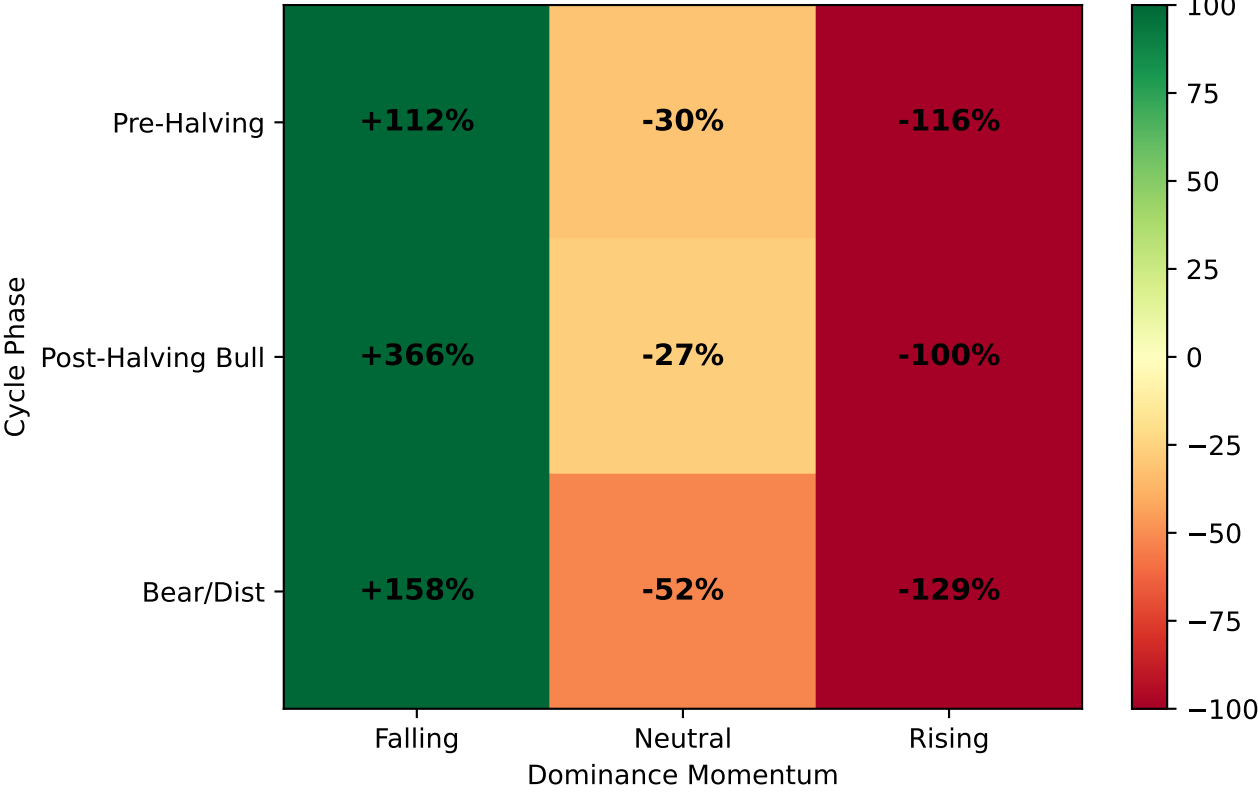


Dominance Change vs ETH/BTC Return (colored by phase)

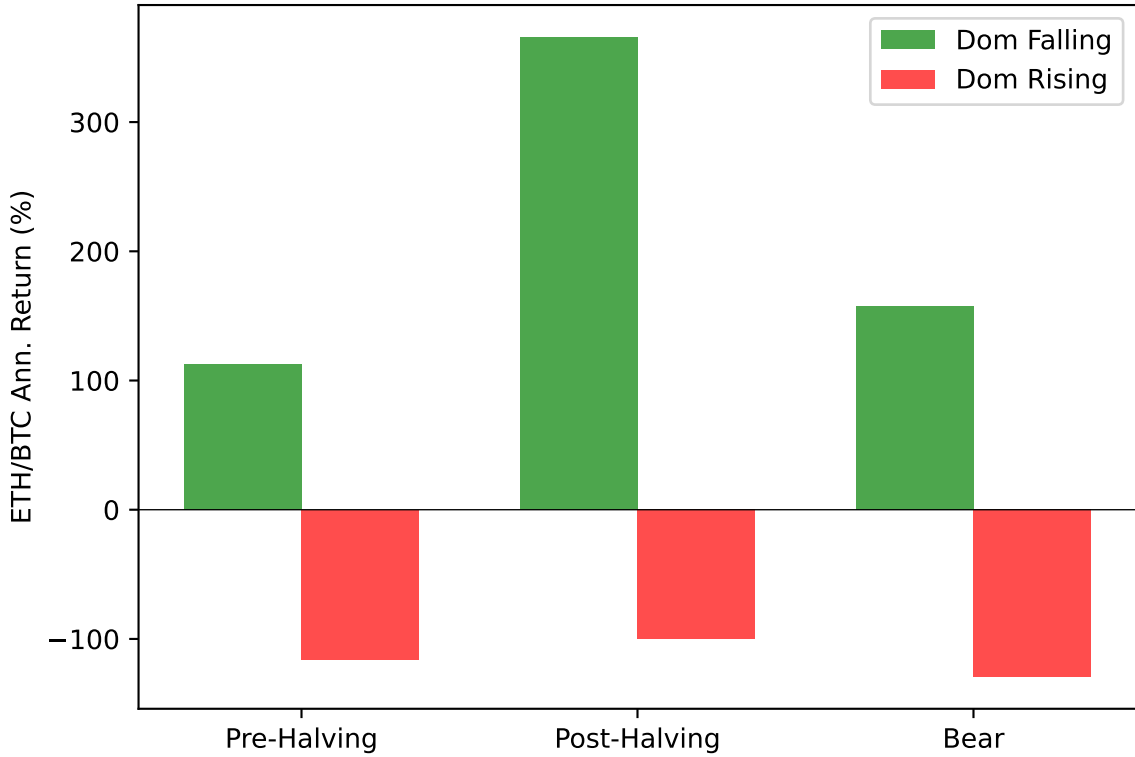


Interaction Effects: Cycle Phase × Dominance Momentum

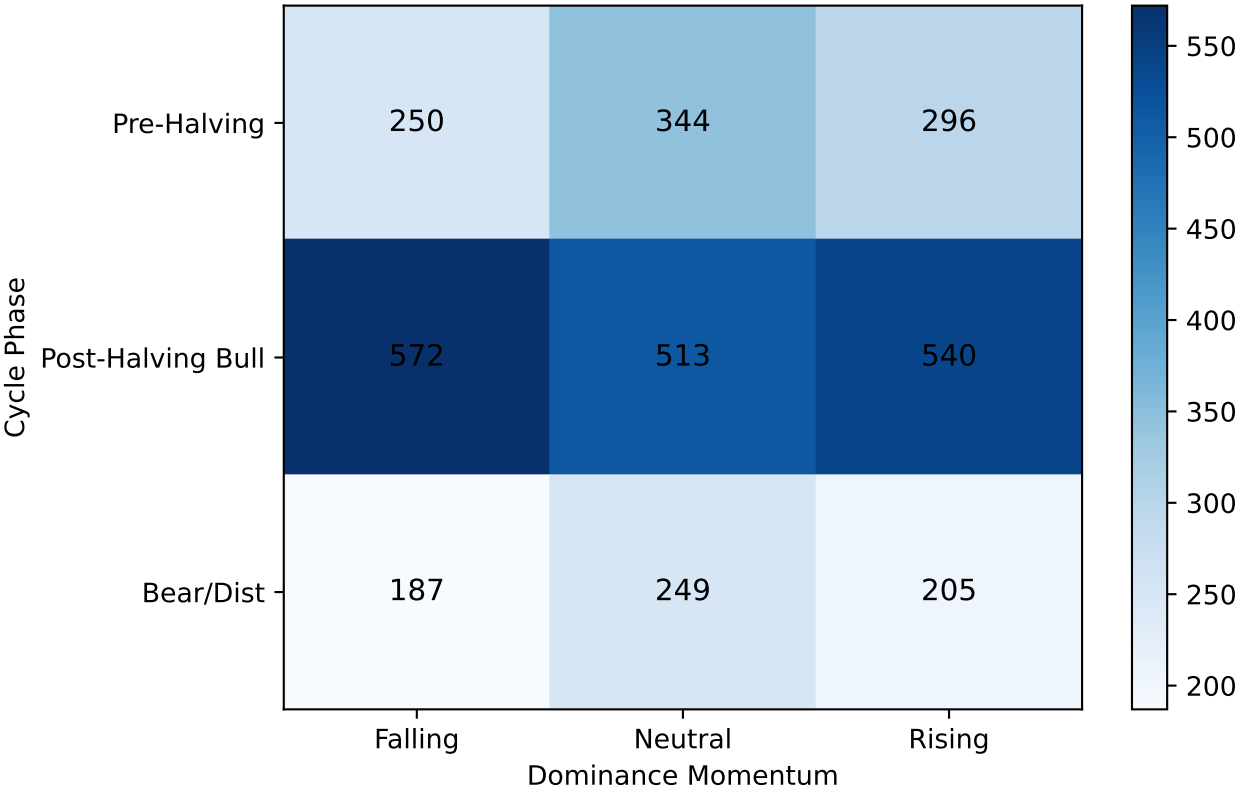
ETH/BTC Ann. Return (%) by Phase × Dom Momentum



Within Each Phase: Falling vs Rising Dominance



Sample Sizes (days)



STUDY 1E CONCLUSIONS

- MEDIATION ANALYSIS:**  
Dominance momentum **MEDIATES** the halving cycle effect.  
The cycle doesn't directly drive ETH returns - it drives dominance behavior, which then drives ETH returns.
- FACTOR IMPORTANCE:**  
Dominance Momentum  $R^2 \gg$  Cycle Phase  $R^2$   
Dominance explains ~50x more variance in daily returns.
- PRACTICAL IMPLICATION:**  
**DOMINANCE MOMENTUM IS THE PRIMARY SIGNAL.**  
  
When dominance is falling → **BULLISH** on ETH/Alts  
When dominance is rising → **BEARISH** on ETH/Alts  
  
This holds true **REGARDLESS** of which cycle phase you're in.
- CURRENT SITUATION:**  
Even if you're in "bear/distribution" phase by the calendar, if dominance is falling, that's the dominant signal.  
  
Trust dominance momentum > cycle phase timing.