BACKTESTING REPORT

Statistical Arbitrage 03/04/2024

1 Objective and Constraint

Capital Size	10B
Return Objective	Medium
Liquidity needs	Low
Time Horizon	Medium
Other Specific Constraint	N/A

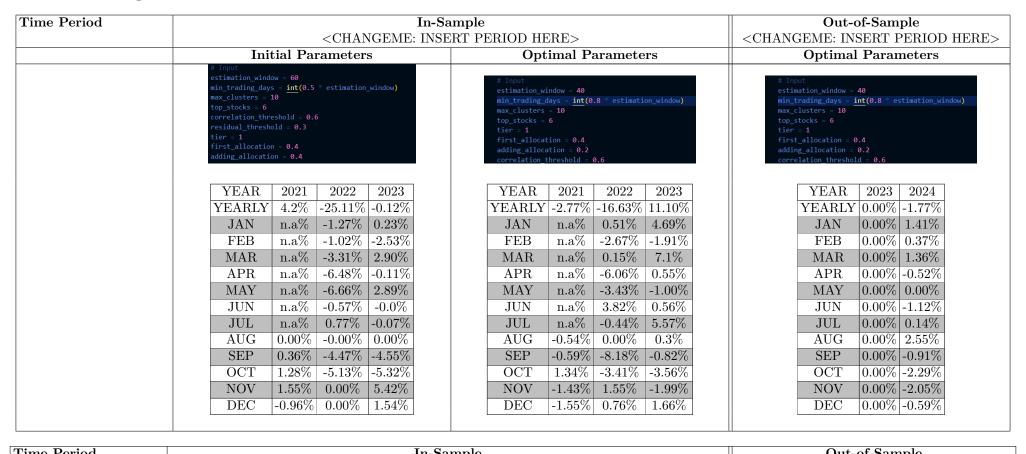
2 Trading Algorithm

Algorithm Name	Statistical Arbitrage
Target Market	Future and Stock
Decision-making schedule	Daily

3 Backtesting Assumption

Liquidity	Full
Price slippage	N/A
Market impact	N/A
Simulated fill price	N/A
Transaction fee and taxes	.23 point/ .23%
Sales proceeds advance	Yes

4 Backtesting Performance Evaluation



Time Period	- Sample < 08/2022-12/2023>			<01/2024-12/2024>	
	Initial Parameters		Optimal Parameters	Optimal Parameters	
	Portfolio	VNINDEX	Portfolio	Portfolio	VNINDEX
HPR	-22.05%	-20.80%	-9.95%	-1.77%	18.83%
Excess HPR	-1.25%	n/a	10.79%	-20.60%	n/a
Annual Return	-10.15%	-4.24%	2.88%	-1.78%	18.9%
Annual Excess Return	-0.62%	n/a	4.93%	-20.68%	n/a
Maximum Drawdown	30.27%	42.46%	28.98%	6.09%	8.38%
Longest Drawdown	468	472	530	95	71
Turnover Ratio	6.35%	n/a	8.95%	8.95%	n/a
Sharpe Ratio	-1.53	-0.65	-0.78	-0.93	0.97
Sortino Ratio	-0.9	-0.54	-0.39	-0.25	1.67
Information Ratio	-0.03	n/a	0.31	-1.76	n/a
No. stocks in periods					
No. held stocks in periods					
Excess returns in periods					