









ho	rt sale - AAPL			
	AA	PL short sellin	g illustration	
Date	Cash flows at time 0	20230316	Explanation	
Sha	re price	155.85		
Mar	ket value of borrowed stock	1,000,000	Dollar amount of shares borrowed.	
No.	of shares borrowed	6.416.43	Borrower agrees to repay this number of shares.	
Len	ler demands haircut (%)	2.00%		
Cas	n collateral deposited with lender	1,020,000	Dollar collateral deposited with lender.	
Fed	funds rate (%)	4.50%	Risk-free interest earned on collateral.	
Bori	owing rate/lending fee (%)	0.25%	Borrowing rate charged by lender.	
Reb	ate rate (%)	4.25%	Rebate rate paid to borrower.	
	Cash flows at settlement on next tradi	ng day		
Mar	ket-to-market next trading day	20230317	Next trading day is St. Patrick's Day (1 day later).	
Sha	re price	155.00	Last trade price.	
Tota	l share gain/loss	5,453.96	Marked-to-market. (Pay gain/loss daily.)	
No.	of calendar days in trading interval	1		
Reb	ate income	120.42	Borrower pays lender (unusual).	
Tota	l mark-to-market (share gain plus rebate)	5,574.38	Amount gained by borrower.	
Rate	e of return	0.55%	(Price appreciation plus rebate income) / collatera	

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nort sale - GME		
GM	IE short selling	illustration
Cash flows at time 0		Explanation
Date stock shorted	20210115	
Share price	35.50	
Market value of borrowed stock	1,000,000	Dollar amount of shares borrowed.
No. of shares borrowed	28,169.01	Borrower agrees to repay this number of shares.
Lender demands haircut (%)	2.00%	
Cash collateral deposited with lender	1,020,000	Dollar collateral deposited with lender.
Fed funds rate (%)	0.08%	Risk-free interest earned on collateral.
Borrowing rate (%)	31.24%	Borrowing rate charged by lender.
Rebate rate (%)	-31.16%	Rebate rate paid to borrower.
Cash flows at settlement on next trade	ing day	
Market-to-market next trading day	20210119	Next trading is 4 days afterward.
Share price	39.36	Last trade price.
Total share gain/loss	-108,732.39	Marked-to-market. (Pay gain/loss daily.)
No. of calendar days in trading interval	4	
Rebate income	-3,531.16	Borrower pays lender (unusual).
Total mark-to-market (share gain plus rebate)	-112,263.56	Amount gained by borrower.
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	Symbol	Last Trade	Change	% Change	Rid	Ack	Volume	Short Sall B	Short Sell Availabilit
1	Symbol	150.10	change	vo so	150.10	159.10	22 402 500	0.00%	Augilable
2	AAPL	136.16	+0.70	+0.50	130.10	130.19	30,402,399	0.00%	Available
3	INTC	28.17	-0.99	-3.40	28.17	28.18	30 327 701	0.00%	Available
4		30.95	+0.865	+2.88	30.94	30.95	2 772 635	0.00%	Available
5	TSLA	195.89	+12.64	+6.90	195.87	195.89	95 655 679	0.00%	Available
6	SPY	396.54	+2.80	+0.71	396.53	396.54	40,411,773	0.00%	Available
7	SPXL	66.93	+1.4219	+2.17	66.91	66.92	6,424,516	1.00%	Limited
8	SVIX	21.89	-2.26	-9.36					
9	VIXY	9.9642	-0.7958	-7.40	9.96	9.97	4,728,662	4.00%	Limited
10	UVXY	5.395	-0.625	-10.38	5.39	5.40	39,415,226	7.75%	Limited
11	UVIX	19.65	-3.404	-14.77	19.60	19.64	3,369,589	16.75%	Not Available
12	SVXY	60.87	+2.095	+3.56	60.85	60.86	3,376,966	1.75%	Limited
13	SVIX	15.10	+1.01	+7.17	15.10	15.11	3,501,021	3.00%	Not Available
14	TIT	104.84	-1.07	-1.01	104.83	104.84	10 295 009	0.00%	Available

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Securities lending data

Ticker	Name	date	fee	Amount	rate
OGFGY	ORIGIN ENERGY LTD-UNSPON ADR	-0.1700	0.2500	6000	0.0800
FLWS	1-800-FLOWERS.COM INC-CL A	-0.2012	0.2812	450000	0.0800
VCVC	10X CAPITAL VENTURE ACQ-CL A	-0.1700	0.2500	400	0.0800
VCVCU	10X CAPITAL VENTURE ACQUISIT	-1.2266	1.3066	50000	0.0800
TXG	10X GENOMICS INC-CLASS A	-0.1700	0.2500	1400000	0.0800
RETC	12 RETECH CORP	-0.8709	0.9509	>10000000	0.0800
ONCP	141 CAPITAL INC	-0.1700	0.2500	>10000000	0.0800
YQ	17 EDUCATION & amp; TECHNOLOGY GR	-69.5440	69.6240	2000000	0.0800
TURN	180 DEGREE CAPITAL CORP	-2.4859	2.5659	250000	0.0800
ATNF	180 LIFE SCIENCES CORP	-7.4003	7.4803	200000	0.0800

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	Securities ler	ndin	ıg r	ate	ana	lysis	5				
		· ·	Absolute	Relative	Shares	Market	Shares	Relative	Return	Rebate	Lending
Ticker	Company name	Midpoint	spread	spread	outst (K)	cap (\$K)	traded	volume	volatility	rate (%)	fee (%)
FLWS	1 800 FLOWERS COM INC	29.510	0.0200	0.0007	36,657	1,081,748	679,231	0.0185	0.6094	-0.2012	0.2812
TXG	10X GENOMICS INC	179.635	0.0700	0.0004	85,804	15,413,402	545,384	0.0064	0.5258	-0.1700	0.2500
TURN	180 DEGREE CAPITAL CORP	6.395	0.0500	0.0078	7,937	50,757	12,233	0.0015	0.3819	-2.4859	2.5659
GOED	1847 GOEDEKER INC	9.450	0.2600	0.0275	6,111	57,749	146,572	0.0240	0.9487	-4.6073	4.6873
BCOW	1895 BANCORP OF WISCONSIN INC	10.285	0.4300	0.0418	4,834	49,718	923	0.0002	0.2914	-0.7201	0.8001
	Midpo Absol Relati	bint = (l ute spre ve spre	pid + a pad = a ad = A	ask) / 2 (ask – Absolu	2 at clos bid) te sprea	se of day ad / Midpo	oint				



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-	Securities le	ndın	lg r	ate	ana	lysis)				
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	Share	es outsta	nding	in the	ousands						
	Mark	tet cap =	Share	es outs	standing	x Midpo	int				
	Shar	es traded	l = Nu	mber	of share	s traded o	on 2021	0115			
	Rela	tive volu	me =	Share	s traded	x Midpo	int / Ma	arket ca	ap		

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-	Securities ler	ndin	g r	ate	ana	lysis	\$				
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Securities lending rate analysis

□ What are characteristics of hard-to-borrow stocks?

		Correl	lation matri	ix		
		Relative	Market	Relative	Return	Lending
	Midpoint	Spread	cap (\$K)	volume	volatility	fee (%)
Midpoint	1	-0.683	0.427	-0.871	-0.914	-0.858
Rel sprd	-0.683	1	0.097	0.723	0.870	0.701
Mkt cap	0.427	0	1	-0.523	-0.215	-0.539
RelVol	-0.871	0.723	-0.523	1	0.922	0.994
Volatility	-0.914	0.870	-0.215	0.922	1	0.913
Lending fee	-0.858	0.701	-0.539	0.994	0.913	1







Security loan d	etails	
□ Information from	n IBKR	
	ng illustration	
Description of security lending opportunity		
Date	1/15/2021	
Ticker	GME	
Name	GAMESTOP CORP-CLASS A	
Rebate rate (%)	-31.16	
Lending fee (%)	31.24	
Amount available	1,000,000	
Risk-free interest rate (%)	0.08	Borrow \$1M in GME
Loan		silares.
Loan value	1,000,000	
Haircut (2% - 5%)	2.00%	
Cash collateral	1,020,000	
Cash flows over next trading day (360 calendar	days)	
Next trading day	1/19/2021	
No. of calendar days in trading interval	4	
Income from T-bills earned by lender	9.07	
Lending fee	3,540.23	
B 1	2 521 16	

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Information from	n IBKR.	
GME securities lend	ing illustration	
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Date	1/15/2021	
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lame	GAMESTOP CORP-CLASS A	
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isk-free interest rate (%)	0.08	shares
oan		situres.
oan value	1,000,000	T 1 1 1
laircut (2% - 5%)	2.00%	Lender demands
ash collateral	1,020,000	haircut of 2%.
ash flows over next trading day (360 calendar	days)	D
lext trading day	1/19/2021	Borrowing provides
o. of calendar days in trading interval	4	\$1.02M in cash
ncome from T-bills earned by lender	9.07	
ending fee	3,540.23	collateral.
Delecte a conservation le conservation	2 521 1/	

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Security loan d	etails	
Security Iouri d	etalls	
□ Information from	n IBKR	
GME securities lend	ing illustration	
Description of security lending opportunity		
Date	1/15/2021	
Ticker	GME	
Name	GAMESTOP CORP-CLASS A	
Rebate rate (%)	-31.16	
Lending fee (%)	31.24	
Amount available	1,000,000	T / / · · · · · · · · · · · · · · · · ·
Risk-free interest rate (%)	0.08	Interest is paid daily.
Loan		A-day weekend
Loan value	1,000,000	-day weekend.
Haircut (2% - 5%)	2.00%	
Cash collateral	1,020,000	Risk-free interest
		in come is
Cash flows over next trading day (360 calendar	days)	income is
Next trading day	1/19/2021	
No. of calendar days in trading interval	4	$1020000 \times 0000 \left(\frac{4}{3} \right)$
Income from T-bills earned by lender	9.07	$1,020,000 \times 0.0008 \left \frac{1}{260} \right = 9.$
Lending fee	3,540.23	(300)



a · 1 1		
Security loan d	etails	
□ Information from	n IBKR.	
		_
GME securities lend	ing illustration	
Description of security lending opportunity	- (15 (000)	-
Date	1/15/2021	
Ticker	GME	
Name	GAMESTOP CORP-CLASS A	
Rebate rate (%)	-31.16	
Lending fee (%)	31.24	
Amount available	1,000,000	Interest is paid daily
Risk-free interest rate (%)	0.08	interest is pule dury.
Loan		4-day weekend
Loan value	1,000,000	r day weekend.
Haircut (2% - 5%)	2.00%	
Cash collateral	1,020,000	Rebate is
Cash flows over next trading day (360 calendar	days)	N
Next trading day	1/19/2021	1020000.000.0000(4) 2521
No. of calendar days in trading interval	4	$\left 1,020,000\times(-0.5110)\right = -5,551$
Income from T-bills earned by lender	9.07	(500)
Lending fee	3,540.23	

Securi	ties 1	ending by ETI	Fs	
BUZZ Van So	nEck cial Sei	ntiment ETF	Va	anEck
Fund Details		Fund Description		As of January 31, 2022
Fund Ticker Intraday NAV (IIV) Index Ticker	BUZZ BUZZIV BUZZTR	VanEck Social Sentiment ETF (BUZZ) seeks the price and yield performance of the BUZZ is intended to track the performance of the 7	s to track, as closely as possible, be Z NextGen AI US Sentiment Leaders 75 large cap U.S. stocks which exhit	fore fees and expenses, s Index (BUZZTR), which bit the highest degree of
Total Net Assets (SM)		positive investor sentiment and bullish perce	eption based on content aggregated	from online courses
Options	116.80 Available	including social media, news articles, blog p	osts and other alternative datasets.	from online sources
Options Exchange	116.80 Available NYSE Arca	including social media, news articles, blog p Top 10 Holdings	osts and other alternative datasets.	from online sources
Options Exchange Inception Date	Available NYSE Arca 03/02/21	including social media, news articles, blog p Top 10 Holdings Holding Name	osts and other alternative datasets.	% of Net Assets
Options Exchange Inception Date	116.80 Available NYSE Arca 03/02/21	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC	Ticker	% of Net Assets
Options Exchange Inception Date	116.80 Available NYSE Arca 03/02/21	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC	Ticker AAPL US PFE US	% of Net Assets 3.39 3.17
Options Exchange Inception Date Fund Data Number of Holdings	116.80 Available NYSE Arca 03/02/21 75	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC	Ticker AAPL US PFE US AMZN US	% of Net Assets 3.39 3.17 3.09
Options Exchange Inception Date Fund Data Number of Holdings Currency	116.80 Available NYSE Arca 03/02/21 75 USD	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC	Ticker AAPL US PFE US AMZN US SOFI US	% of Net Assett 3.39 3.17 3.09 3.07
Options Exchange Inception Date Fund Data Number of Holdings Currency Price/Earnings Ratio*	116.80 Available NYSE Arca 03/02/21 75 USD 24.06	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC BLACKBERRY LTD	Ticker AAPL US PFE US AMZN US SOFI US BBRY US	% of Net Assett 3.39 3.17 3.09 3.07 3.05
Currency Price/Earnings Ratio*	116.80 Available NYSE Arca 03/02/21 75 USD 24.06 4.74	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC BLACKBERRY LTD NVIDIA CORP	Ticker AAPL US PFE US AMZN US SOFI US BBRY US NVDA US	% of Net Assets 3.39 3.09 3.07 3.05 2.98
Options Exchange Inception Date Fund Data Number of Holdings Currency Price/Earnings Ratio* Weighted Ayg.	116.80 Available NYSE Arca 03/02/21 75 USD 24.06 4.74 \$362,651	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC BLACKBERRY LTD NVIDIA CORP GAMESTOP CORP	Ticker AAPL US PFE US AMZN US SOFI US BBRY US NVDA US GME US	% of Net Assets 3.39 3.17 3.09 3.05 2.98 2.90

BUZZ Vai So	nEck cial Ser	ntiment ETF	Va	nEck
Fund Details		Fund Description		As of January 31, 202
Fund Ticker	BUZZ	VanEck Social Sentiment ETE (BLIZZ) seeks	to track as closely as possible be	fore fees and expenses
Intraday NAV (IIV)	BUZZIV	the price and yield performance of the BUZZ	NextGen AI US Sentiment Leaders	Index (BUZZTR), which
Index Ticker	BUZZTR	is intended to track the performance of the 7	5 large cap U.S. stocks which exhib	it the highest degree of
Total Net Assets (\$M)	116.80	positive investor sentiment and bullish perce	ption based on content aggregated	from online sources
		including accial modio nouse articles blog p	anto and other alternative datagate	
Options	Available	including social media, news articles, blog p	osts and other alternative datasets.	
Options Exchange	Available NYSE Arca	Top 10 Holdings	osts and other alternative datasets.	
Options Exchange Inception Date	Available NYSE Arca 03/02/21	Including social media, news articles, blog p Top 10 Holdings Holding Name	osts and other alternative datasets. Ticker	% of Net Asset
Options Exchange Inception Date	Available NYSE Arca 03/02/21	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC	Ticker AAPL US	% of Net Asset: 3.35
Options Exchange Inception Date	Available NYSE Arca 03/02/21	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC	Ticker AAPL US PFE US	% of Net Asset: 3.35 3.17
Options Exchange Inception Date Fund Data Number of Holdings	Available NYSE Arca 03/02/21 75	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC	Ticker AAPL US PFE US AMZN US	% of Net Asset 3.39 3.17 3.09
Options Exchange Inception Date Fund Data Number of Holdings Currency	Available NYSE Arca 03/02/21 75 USD	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC	Ticker AAPL US PFE US AMZN US SOFI US	% of Net Asset: 3.35 3.17 3.00 3.07
Options Exchange Inception Date Fund Data Number of Holdings Currency Price/Earnings Ratio*	Available NYSE Arca 03/02/21 75 USD 24.06	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC BLACKBERRY LTD	Ticker Ticker AAPL US PFE US AMZN US SOFI US BBRY US	% of Net Assett 3.35 3.17 3.05 3.07 3.07 3.05
Options Exchange Inception Date Fund Data Number of Holdings Currency Price/Earnings Ratio* Price/Book Ratio*	Available NYSE Arca 03/02/21 75 USD 24.06 4.74	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC BLACKBERRY LTD NVIDIA CORP	Ticker Ticker AAPL US PFE US AMZN US SOFI US BBRY US NVDA US	% of Net Asset 3.35 3.17 3.00 3.07 3.00 2.96
Options Exchange Inception Date Fund Data Number of Holdings Currency Price/Eaork Ratio* Weiahted Ava,	Available NYSE Arca 03/02/21 75 USD 24.06 4.74 \$362.651	Including social media, news articles, blog p Top 10 Holdings Holding Name APPLE INC PFIZER INC AMAZON.COM INC SOFI TECHNOLOGIES INC BLACKBERRY LTD NVIDIA CORP GAMESTOP CORP	Ticker Ticker AAPL US PFE US AMZN US SOFI US BBRY US NVDA US GME US	% of Net Asset 3.39 3.17 3.00 3.07 2.90 2.90 2.90

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