

The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Friday, November 26, 2021**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
AAN	Aarons Holdings Company, Inc.	AAN	No	NYSE	4:00	Wolverine Trading, LLC	1
ADES	ADVANCED EMISSIONS SOLUTIONS, INC.	ADES	No	NASDAQ	4:00	Wolverine Trading, LLC	1
ATNF	180 LIFE SCIENCES CORP.	ATNF	No	NASDAQ	4:00	Citadel Securities, LLC	1
ATY	ACUITYADSHOLDINGS INC	ATY	No	NASDAQ	4:00	Wolverine Trading, LLC	1
AUR	Aurora Innovation, Inc.	AUR	No	NASDAQ	4:00	Morgan Stanley	1
AUS	AUSTERLITZ ACQUISITION CORP. I	AUS	No	NYSE	4:00	Wolverine Trading, LLC	1
AZRE	AZURE POWER GLOBAL LTD.	AZRE	No	NYSE	4:00	Citadel Securities, LLC	1
BCTX	BRIACELL THERAPEUTICS CORP	BCTX	No	NASDAQ	4:00	Susquehanna Securities	2
BHIL	Benson Hill, Inc.	BHIL	No	NYSE	4:00	Susquehanna Securities	2
BKU	BankUnited, Inc.	BKU	No	NYSE	4:00	Wolverine Trading, LLC	2
BLND	BLEND LABS, INC	BLND	No	NYSE	4:00	Wolverine Trading, LLC	2
BRY	Berry Corporation	BRY	No	NASDAQ	4:00	Citadel Securities, LLC	2
BTF	VALKYRIE BITCOIN STRATEGY ETF	BTF	No	NASDAQ	4:00	Susquehanna Securities	2
BTNB	BRIDGETOWN 2 HOLDINGS LTD.	BTNB	No	NASDAQ	4:00	Citadel Securities, LLC	2
CABA	CABALETTA BIO, INC.	CABA	No	NASDAQ	4:00	Susquehanna Securities	2
CLXT	CALYXT, INC.	CLXT	No	NASDAQ	4:00	Citadel Securities, LLC	2
CMLT	CM LIFE SCIENCES III INC	CMLT	No	NASDAQ	4:00	Susquehanna Securities	2
CNTB	CONNECT BIOPHARMA HOLDINGS LIMITED	CNTB	No	NASDAQ	4:00	Citadel Securities, LLC	2
CNXC	CONCENTRIX CORPORATION	CNXC	No	NASDAQ	4:00	Susquehanna Securities	2
COMP	COMPASS INC	COMP	No	NYSE	4:00	Wolverine Trading, LLC	2
CRDL	CARDIOL THERAPEUTICS INC.	CRDL	No	NASDAQ	4:00	Susquehanna Securities	2
CVA	Covanta Holding Corp.	CVA	No	NYSE	4:00	Susquehanna Securities	2

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CYBE	CYBEROPTICS CORPORATION	CYBE	No	NASDAQ	4:00	Susquehanna Securities	2
ELYS	ELYS GAME TECHNOLOGY, CORP.	ELYS	No	NASDAQ	4:00	Citadel Securities, LLC	3
EPRT	Essential Properties Realty Trust Inc.	EPRT	No	NYSE	4:00	Citadel Securities, LLC	3
ERYP	ERYTECH PHARMA SA	ERYP	No	NASDAQ	4:00	Susquehanna Securities	3
FDMT	4D MOLECULAR THERAPEUTICS, INC.	FDMT	No	NASDAQ	4:00	Susquehanna Securities	3
GRUB	JUST EAT TAKEAWAY.COM N.V. ADS	GRUB	No	NASDAQ	4:00	Susquehanna Securities	4
GTLB	GITLAB INC	GTLB	No	NASDAQ	4:00	Wolverine Trading, LLC	4
HCIC	HENNESSY CAPITAL INVESTMENT	HCIC	No	NASDAQ	4:00	Susquehanna Securities	4
HLTH	CUE HEALTH INC	HLTH	No	NASDAQ	4:00	Citadel Securities, LLC	4
HVT	Haverty Furniture Companies, Inc.	HVT	No	NYSE	4:00	Citadel Securities, LLC	4
ICL	ICL GROUP LTD.	ICL	No	NYSE	4:00	Susquehanna Securities	5
IMTX	IMMATICS N.V.	IMTX	No	NASDAQ	4:00	Citadel Securities, LLC	5
JHG	Janus Henderson Group Plc	JHG	No	NYSE	4:00	Citadel Securities, LLC	5
JJC	IPATH B BLOOMBERG COPPER TOTAL RETURN ETN	JJC	No	NYSE Arca	4:00	Wolverine Trading, LLC	5
LPTX	LEAP THERAPEUTICS, INC	LPTX	No	NASDAQ	4:00	Citadel Securities, LLC	5
LTRX	LANTRONIX, INC.	LTRX	No	NASDAQ	4:00	Wolverine Trading, LLC	5
MCMJ	MERIDA MERGER CORP I	MCMJ	No	NASDAQ	4:00	Susquehanna Securities	6
MDP	Meredith Corporation	MDP	No	NYSE	4:00	Susquehanna Securities	6
MFH	MERCURY FINTECH HOLDING, INC.	MFH	No	NASDAQ	4:00	Citadel Securities, LLC	6
MGTX	MEIRAGTX HOLDINGS PLC	MGTX	No	NASDAQ	4:00	Susquehanna Securities	6
MNRL	BRIGHAM MINERALS INC.	MNRL	No	NYSE	4:00	Citadel Securities, LLC	6
MRAM	EVERSPIN TECHNOLOGIES, INC.	MRAM	No	NASDAQ	4:00	Citadel Securities, LLC	6
MRUS	MERUS N.V.	MRUS	No	NASDAQ	4:00	Susquehanna Securities	6
MYMD	MYMD PHARMACEUTICALS, INC.	MYMD	No	NASDAQ	4:00	Citadel Securities, LLC	6
NEXA	NEXA RESOURCESS.A.	NEXA	No	NYSE	4:00	Wolverine Trading, LLC	6
OPTN	OPTINOSE, INC	OPTN	No	NASDAQ	4:00	Citadel Securities, LLC	7

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OSS	ONE STOP SYSTEMS, INC.	OSS	No	NASDAQ	4:00	Wolverine Trading, LLC	7
OYST	OYSTER POINT PHARMA INC	OYST	No	NASDAQ	4:00	Citadel Securities, LLC	7
PAE	PAE INCORPORATED	PAE	No	NASDAQ	4:00	Susquehanna Securities	7
PHAS	PHASEBIO PHARMACEUTICALS, INC.	PHAS	No	NASDAQ	4:00	Susquehanna Securities	7
PHUN	PHUNWARE, INC.	PHUN	No	NASDAQ	4:00	Citadel Securities, LLC	7
PRG	PROG Holdings, Inc.	PRG	No	NYSE	4:00	Citadel Securities, LLC	7
PYR	PYROGENESIS CANADA, INC.	PYR	No	NASDAQ	4:00	Susquehanna Securities	7
RELY	REMITLY GLOBAL, INC	RELY	No	NASDAQ	4:00	Wolverine Trading, LLC	7
RSKD	RISKIFIED LTD.	RSKD	No	NYSE	4:00	Wolverine Trading, LLC	7
SHLS	SHOALS TECHNOLOGIES GROUP	SHLS	No	NASDAQ	4:00	Citadel Securities, LLC	8
SV	SPRING VALLEY ACQUISITION CORP	SV	No	NASDAQ	4:00	Wolverine Trading, LLC	8
TARA	PROTARA THERAPEUTICS, INC.	TARA	No	NASDAQ	4:00	Susquehanna Securities	8
TDUP	THREDUP INC	TDUP	No	NASDAQ	4:00	Wolverine Trading, LLC	8
TFII	TFI INTERNATIONAL INC.	TFII	No	NYSE	4:00	Wolverine Trading, LLC	8
TGP	Teekay LNG Partners LP	TGP	No	NYSE	4:00	Susquehanna Securities	8
TUYA	TUYA INC	TUYA	No	NYSE	4:00	Citadel Securities, LLC	8
TWKS	THOUGHTWORKS HOLDINGS	TWKS	No	NASDAQ	4:00	Citadel Securities, LLC	8
TWND	TAILWIND ACQUISITION CORP.	TWND	No	NYSE	4:00	Susquehanna Securities	8
UROY	URANIUM ROYALTY CORP	UROY	No	NASDAQ	4:00	Citadel Securities, LLC	9
WBX	Wallbox N.V.	WBX	No	NYSE	4:00	Citadel Securities, LLC	10
WIRE	ENCORE WIRE CORPORATION	WIRE	No	NASDAQ	4:00	Morgan Stanley	10

Please contact MIAX Options Listings with any questions.

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