



The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Tuesday, September 28, 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
AEHR	AEHR TEST SYSTEMS	AEHR	No	NASDAQ	4:00	Citadel Securities LLC	1
AGFY	AGRIFY CORP.	AGFY	No	NASDAQ	4:00	Citadel Securities LLC	1
AMEH	APOLLO MEDICAL HOLDINGS, INC.	AMEH	No	NASDAQ	4:00	Susquehanna Securities	1
ANAT	American National Group, Inc.	ANAT	No	NASDAQ	4:00	Citadel Securities LLC	1
ANY	SPHERE 3D CORP.	ANY	No	NASDAQ	4:00	Wolverine Trading, LLC	1
APDN	APPLIED DNA SCIENCES, INC.	APDN	No	NASDAQ	4:00	Citadel Securities LLC	1
ASLN	ASLAN PHARMACEUTICALS LTD. ADR	ASLN	No	NASDAQ	4:00	Susquehanna Securities	1
ASX	ASE TECHNOLOGY HOLDING CO., LTD.	ASX	No	NYSE	4:00	Wolverine Trading, LLC	1
ATCX	ATLAS TECHNICAL CONSULTANTS, INC.	ATCX	No	NASDAQ	4:00	Susquehanna Securities	1
AUTL	AUTOLUS THERAPEUTICS PLC	AUTL	No	NASDAQ	4:00	Susquehanna Securities	1
BCYC	BICYCLE THERAPEUTICS PLC	BCYC	No	NASDAQ	4:00	Citadel Securities LLC	2
BHG	BRIGHT HEALTH GROUP	BHG	No	NYSE	4:00	Wolverine Trading, LLC	2
BITF	BITFARMS LTD.	BITF	Yes	NASDAQ	4:00	Wolverine Trading, LLC	2
BITQ	BITWISE CRYPTO INDUSTRY INNOVATORS ETF	BITQ	No	NYSE Arca	4:00	Citadel Securities LLC	2
BLU	BELLUS HEALTH INC.	BLU	No	NASDAQ	4:00	Susquehanna Securities	2
BMTX	BM TECHNOLOGIES, INC.	BMTX	No	AMEX	4:00	Wolverine Trading, LLC	2
BREZ	BREEZE HOLDINGS ACQUISITION	BREZ	No	NASDAQ	4:00	Wolverine Trading, LLC	2

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CIO	City Office REIT, Inc.	CIO	No	NYSE	4:00	Wolverine Trading, LLC	2
CLPR	CLIPPER REALTY, INC.	CLPR	No	NYSE	4:00	Wolverine Trading, LLC	2
COOK	TRAEGER, INC.	COOK	No	NYSE	4:00	Wolverine Trading, LLC	2
CRCT	CRICUT, INC.	CRCT	No	NASDAQ	4:00	Susquehanna Securities	2
CRTD	CREATD, INC.	CRTD	No	NASDAQ	4:00	Susquehanna Securities	2
CXP	Columbia Property Trust, Inc.	CXP	No	NYSE	4:00	Citadel Securities LLC	2
RBOT	Vicarious Surgical Inc.	RBOT	No	NYSE	4:00	Wolverine Trading, LLC	7
DGNS	DRAGONEER GROWTH CORP	DGNS	No	NASDAQ	4:00	Wolverine Trading, LLC	3
DLPN	DOLPHIN ENTERTAINMENT INC	DLPN	No	NASDAQ	4:00	Citadel Securities LLC	3
DOOO	BRP, INC.	DOOO	No	NASDAQ	4:00	Susquehanna Securities	3
DRVN	DRIVEN BRANDS HOLDINGS INC	DRVN	No	NASDAQ	4:00	Citadel Securities LLC	3
DUOL	DUOLINGO, INC.	DUOL	No	NASDAQ	4:00	Susquehanna Securities	3
ESSC	EAST STONE ACQUISITION CORP	ESSC	No	NASDAQ	4:00	Wolverine Trading, LLC	3
FARM	FARMER BROS. CO.	FARM	No	NASDAQ	4:00	Susquehanna Securities	3
FULC	FULCRUM THERAPEUTICS, INC.	FULC	No	NASDAQ	4:00	Susquehanna Securities	3
GGPI	GORES GUGGENHEIM INC	GGPI	No	NASDAQ	4:00	Citadel Securities LLC	4
GSL	GLOBAL SHIP LEASE, INC.	GSL	No	NYSE	4:00	Citadel Securities LLC	4
GTBP	GT BIOPHARMA INC	GTBP	No	NASDAQ	4:00	Citadel Securities LLC	4
GTIM	Good Times Restaurants Inc.	GTIM	No	NASDAQ	4:00	Wolverine Trading, LLC	4
GTS	TRIPLE S MANAGEMENT CORPORATION	GTS	No	NYSE	4:00	Citadel Securities LLC	4

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HIPO	Hippo Holdings Inc.	HIPO	No	NYSE	4:00	Susquehanna Securities	4
HJLI	HANCOCK JAFFE LABORATORIES, INC.	HJLI	No	NASDAQ	4:00	Susquehanna Securities	4
HLLY	HOLLEY INC.	HLLY	No	NYSE	4:00	Susquehanna Securities	4
HMLP	HOEGH LNG PARTNERS LP	HMLP	No	NYSE	4:00	Wolverine Trading, LLC	4
HNP	HUANENG POWER INTERNATIONAL, INC. ADS	HNP	No	NYSE	4:00	Wolverine Trading, LLC	4
IEC	IEC ELECTRONICS CORP	IEC	No	NASDAQ	4:00	Susquehanna Securities	5
IMAB	I-MAB SPONSORED ADR	IMAB	No	NASDAQ	4:00	Susquehanna Securities	5
IMNM	IMMUNOME, INC	IMNM	No	NASDAQ	4:00	Susquehanna Securities	5
INTT	INTEST CORPORATION	INTT	No	AMEX	4:00	Citadel Securities LLC	5
IPA	IMMUNOPRECISE ANTIBODIES LTD.	IPA	No	NASDAQ	4:00	Susquehanna Securities	5
ITOT	iShares Core S&P Total U.S. Stock Market ETF	ITOT	No	NYSE Arca	4:00	Citadel Securities LLC	5
JEPI	JPMORGAN EQUITY PREMIUM INCOME ETF	JEPI	No	NYSE Arca	4:00	Wolverine Trading, LLC	5
KNBE	KNOWBE4, INC.	KNBE	No	NASDAQ	4:00	Wolverine Trading, LLC	5
KVSB	KHOSLA VENTURES ACQUISITION CO. II	KVSB	No	NASDAQ	4:00	Citadel Securities LLC	5
KXIN	KAIXIN AUTO HOLDINGS	KXIN	No	NASDAQ	4:00	Wolverine Trading, LLC	5
LFST	LIFESTANCE HEALTH GROUP, INC.	LFST	No	NASDAQ	4:00	Susquehanna Securities	5
LIFE	ATYR PHARMA, INC.	LIFE	No	NASDAQ	4:00	Susquehanna Securities	5

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LUNA	LUNA INNOVATIONS INC	LUNA	No	NASDAQ	4:00	Citadel Securities LLC	5
MCW	MISTER CAR WASH INC	MCW	No	NYSE	4:00	Wolverine Trading, LLC	6
MDLA	Medallia, Inc.	MDLA	No	NYSE	4:00	Susquehanna Securities	6
MDVL	MEDAVAIL HOLDINGS, INC.	MDVL	No	NASDAQ	4:00	Wolverine Trading, LLC	6
METC	RAMACO RESOURCES, INC.	METC	No	NASDAQ	4:00	Susquehanna Securities	6
MIRM	MIRUM PHARMACEUTICALS, INC.	MIRM	No	NASDAQ	4:00	Citadel Securities LLC	6
MNDY	MONDAY.COM LTD	MNDY	No	NASDAQ	4:00	Susquehanna Securities	6
MOSY	MOSYS, INC.	MOSY	No	NASDAQ	4:00	Wolverine Trading, LLC	6
NINE	NINE ENERGY SERVICE INC	NINE	No	NYSE	4:00	Citadel Securities LLC	6
NRXP	NRX PHARMACEUTICALS, INC	NRXP	No	NASDAQ	4:00	Susquehanna Securities	6
OBLG	OBLONG, INC.	OBLG	No	NASDAQ	4:00	Susquehanna Securities	7
OCG	ORIENTAL CULTURE HOLDING LTD	OCG	No	NASDAQ	4:00	Susquehanna Securities	7
ONDS	ONDAS HOLDINGS, INC.	ONDS	No	NASDAQ	4:00	Susquehanna Securities	7
PANL	PANGAEA LOGISTICS SOLUTIONS LTD.	PANL	No	NASDAQ	4:00	Citadel Securities LLC	7
PSTX	POSEIDA THERAPEUTICS, INC.	PSTX	No	NASDAQ	4:00	Citadel Securities LLC	7
QTRX	QUANTERIX CORPORATION	QTRX	No	NASDAQ	4:00	Wolverine Trading, LLC	7
RADI	RADIUS GLOBAL INFRASTRUCTURE INC	RADI	No	NASDAQ	4:00	Citadel Securities LLC	7
RLAY	RELAY THERAPEUTICS INC	RLAY	No	NASDAQ	4:00	Citadel Securities LLC	7
RNA	AVIDITY BIOSCIENCES INC	RNA	No	NASDAQ	4:00	Citadel Securities LLC	7
S	SENTINELONE, INC	S	No	NYSE	4:00	Citadel Securities LLC	8

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SAFM	SANDERSON FARMS IN	SAFM	No	NASDAQ	4:00	Susquehanna Securities	8
SANA	SANA BIOTECHNOLOGY INC.	SANA	No	NASDAQ	4:00	Susquehanna Securities	8
SC	Santander Consumer USA	SC	No	NYSE	4:00	Susquehanna Securities	8
SGOC	SGOCO GROUP LTD.	SGOC	No	NASDAQ	4:00	Citadel Securities LLC	8
SGTX	SIGILON THERAPEUTICS, INC.	SGTX	No	NASDAQ	4:00	Citadel Securities LLC	8
SKM	SK TELECOM CO. LTD	SKM	No	NYSE	4:00	Citadel Securities LLC	8
SKYT	SKYWATER TECHNOLOGY INC	SKYT	No	NASDAQ	4:00	Susquehanna Securities	8
SLI	STANDARD LITHIUM LTD.	SLI	No	AMEX	4:00	Susquehanna Securities	8
SPFR	JAWS SPITFIRE ACQUISITION CORP.	SPFR	No	NYSE	4:00	Citadel Securities LLC	8
STKS	ONE GROUP HOSPITALITY, INC.	STKS	No	NASDAQ	4:00	Susquehanna Securities	8
STMP	STAMPS.COM INC	STMP	No	NASDAQ	4:00	Citadel Securities LLC	8
SUPV	GRUPO SUPERVIELLE SA	SUPV	No	NYSE	4:00	Citadel Securities LLC	8
TASK	TASKUS, INC.	TASK	No	NASDAQ	4:00	Wolverine Trading, LLC	8
TGLS	TECNOGLASS INC.	TGLS	No	NASDAQ	4:00	Citadel Securities LLC	8
THD	iShares MSCI Thailand ETF	THD	No	NYSE Arca	4:00	Susquehanna Securities	8
TLIS	TALIS BIOMEDICAL CORP.	TLIS	No	NASDAQ	4:00	Wolverine Trading, LLC	8
VHT	Vanguard Health Care ETF	VHT	No	NYSE Arca	4:00	Susquehanna Securities	9
VRCA	VERRICA PHARMACEUTICALS INC.	VRCA	No	NASDAQ	4:00	Citadel Securities LLC	9

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VTIP	VANGUARD SHORT-TERM INFLATION-PROTECTED SECURITIES	VTIP	No	NASDAQ	4:00	Wolverine Trading, LLC	9
VTWO	Vanguard Russell 2000 ETF	VTWO	No	NASDAQ	4:00	Susquehanna Securities	9
VYGG	VY GLOBAL GROWTH	VYGG	No	NYSE	4:00	Citadel Securities LLC	9
WISA	SUMMIT WIRELESSTECHNOLOGIES, INC.	WISA	No	NASDAQ	4:00	Citadel Securities LLC	10
XELA	EXELA TECHNOLOGIES INC	XELA	Yes	NASDAQ	4:00	Susquehanna Securities	10
XENE	Xenon Pharmaceuticals Inc.	XENE	No	NASDAQ	4:00	Susquehanna Securities	10
XFOR	X4 PHARMACEUTICALS, INC.	XFOR	No	NASDAQ	4:00	Citadel Securities LLC	10
XONE	ExOne Co.	XONE	No	NASDAQ	4:00	Citadel Securities LLC	10
YOU	CLEAR SECURE, INC	YOU	No	NYSE	4:00	Citadel Securities LLC	10
ZNTL	ZENTALIS PHARMACEUTICALS, INC.	ZNTL	No	NASDAQ	4:00	Citadel Securities LLC	11
ZY	ZYMERGEN INC	ZY	No	NASDAQ	4:00	Wolverine Trading, LLC	11
CFLT	CONFLUENT, INC.	CFLT	No	NASDAQ	4:00	Wolverine Trading, LLC	2
DCRC	DECARBONIZATION PLUS ACQUISITION CORPORATION III	DCRC	No	NASDAQ	4:00	Wolverine Trading, LLC	3
DOCS	DOXIMITY, INC	DOCS	No	NYSE	4:00	Susquehanna Securities	3
MQ	MARQETA, INC	MQ	No	NASDAQ	4:00	Wolverine Trading, LLC	6
ORPH	ORPHAZYME AS	ORPH	No	NASDAQ	4:00	Susquehanna Securities	7
RLX	RLX TECHNOLOGY INC	RLX	No	NYSE	4:00	Susquehanna Securities	7

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RYB	RYB EDUCATION INC.	RYB	No	NYSE	4:00	Susquehanna Securities	7

Please contact MIAX Options Listings with any questions.

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