



The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Friday, April 9, 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
ADN	Advent Technologies Holdings, Inc.	ADN	No	NASDAQ	4:00	Citadel Securities, LLC	1
ADTX	ADITX THERAPEUTICS, INC.	ADTX	No	NASDAQ	4:00	Citadel Securities, LLC	1
AFI	Armstrong Flooring, Inc.	AFI	No	NYSE	4:00	Citadel Securities, LLC	1
AGC	ALTIMETER GROWTH CORP	AGC	No	NASDAQ	4:00	Wolverine Trading, LLC	1
AGCB	ALTIMETER GROWTH CORP	AGCB	No	NYSE	4:00	Wolverine Trading, LLC	1
AKRO	AKERO THERAPEUTICS, INC.	AKRO	No	NASDAQ	4:00	Susquehanna Securities	1
ALGM	ALLEGRO MICROSYSTEMS, INC.	ALGM	No	NASDAQ	4:00	Citadel Securities, LLC	1
APEN	APOLLO ENDOSURGERY INC	APEN	No	NASDAQ	4:00	Citadel Securities, LLC	1
ASTS	AST SpaceMobile, Inc.	ASTS	No	NASDAQ	4:00	Wolverine Trading, LLC	1
ASYS	Amtech Systems, Inc.	ASYS	No	NASDAQ	4:00	Citadel Securities, LLC	1
AVCT	AMERICAN VIRTUAL CLOUD TECHNOLOGIES INC	AVCT	No	NASDAQ	4:00	Citadel Securities, LLC	1
AWAY	ETFMG TRAVEL TECH ETF	AWAY	No	NYSE Arca	4:00	Wolverine Trading, LLC	1
AZUL	Azul S.A.	AZUL	No	NYSE	4:00	Wolverine Trading, LLC	1
BBIG	VINCO VENTURES, INC.	BBIG	No	NASDAQ	4:00	Susquehanna Securities	2
BQ	BOQII HOLDING LIMITED SPONSORED ADR	BQ	No	NYSE	4:00	Citadel Securities, LLC	2
BRF	VanEck Vectors Brazil Small-Cap ETF	BRF	No	NYSE Arca	4:00	Susquehanna Securities	2
BRMK	BROADMARK REALTY CAPITAL INC	BRMK	No	NYSE	4:00	Citadel Securities, LLC	2
BSIG	BRIGHTSPHERE INVESTMENT GROUP INC	BSIG	No	NYSE	4:00	Susquehanna Securities	2
BTAQ	BURGUNDY TECHNOLOGY ACQUISITION CORP.	BTAQ	No	NASDAQ	4:00	Citadel Securities, LLC	2
BUZZ	VANECK VECTORS SOCIAL SENTIMENT ETF	BUZZ	No	NYSE Arca	4:00	Citadel Securities, LLC	2
BWAC	BETTER WORLD ACQUISITION CORP.	BWAC	No	NASDAQ	4:00	Wolverine Trading, LLC	2

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CAPA	HIGHCAPE CAPITAL ACQUISITION CORP	CAPA	No	NASDAQ	4:00	Wolverine Trading, LLC	2
CCAC	CITIC CAPITAL ACQUISITION CORP.	CCAC	No	NYSE	4:00	Susquehanna Securities	2
CDXC	ChromaDex Corporation	CDXC	No	NASDAQ	4:00	Citadel Securities, LLC	2
CFAC	CF FINANCE ACQUISITION CORP	CFAC	No	NASDAQ	4:00	Susquehanna Securities	2
CHMA	CHIASMA INC	CHMA	No	NASDAQ	4:00	Citadel Securities, LLC	2
CLII	CLIMATE CHANGE CRISIS	CLII	No	NYSE	4:00	Wolverine Trading, LLC	2
CMLF	CM LIFE SCIENCES, INC	CMLF	No	NASDAQ	4:00	Susquehanna Securities	2
CMPS	COMPASS PATHWAYS PLC	CMPS	No	NASDAQ	4:00	Susquehanna Securities	2
CNYA	iShare MSCI China A ETF	CNYA	No	BATS	4:00	Citadel Securities, LLC	2
CO	Global Cord Blood Corporation	CO	No	NYSE	4:00	Wolverine Trading, LLC	2
CONX	CONX CORP.	CONX	No	NASDAQ	4:00	Citadel Securities, LLC	2
CPSH	CPS TECHNOLOGIES CORPORATION	CPSH	No	NASDAQ	4:00	Citadel Securities, LLC	2
CRSA	CRESCENT ACQUISITION CORP	CRSA	No	NASDAQ	4:00	Susquehanna Securities	2
DAO	YOUDAO INC	DAO	No	NYSE	4:00	Morgan Stanley	3
DMYD	DMY TECHNOLOGY GROUP	DMYD	No	NYSE	4:00	Susquehanna Securities	3
DMYI	DMY TECHNOLOGY GROUP, INC. III	DMYI	No	NYSE	4:00	Wolverine Trading, LLC	3
DRIV	GLOBALX AUTONOMOUS & ELECTRIC VEHICLES ETF	DRIV	No	NASDAQ	4:00	Morgan Stanley	3
DXYN	Dixie Group Inc.	DXYN	No	NASDAQ	4:00	Citadel Securities, LLC	3
EARS	AURIS MEDICAL HOLDING LTD.	EARS	No	NASDAQ	4:00	Susquehanna Securities	3
EC	Ecopetrol SA	EC	No	NYSE	4:00	Susquehanna Securities	3
EPM	Evolution Petroleum Corporation	EPM	No	AMEX	4:00	Susquehanna Securities	3
EQOS	DIGINEX LIMITED	EQOS	No	NASDAQ	4:00	Susquehanna Securities	3
EVGN	EVOGENE LTD	EVGN	No	NASDAQ	4:00	Susquehanna Securities	3
EXPC	EXPERIENCE INVESTMENT CORP	EXPC	No	NASDAQ	4:00	Citadel Securities, LLC	3

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FAII	FORTRESS VALUE ACQUISITION CORP. II	FAII	No	NYSE	4:00	Wolverine Trading, LLC	3
FDUS	Fidus Investment Corporation	FDUS	No	NASDAQ	4:00	Citadel Securities, LLC	3
FMAC	FIRSTMARK HORIZON ACQUISITION CORP	FMAC	No	NYSE	4:00	Wolverine Trading, LLC	3
FPAC	FAR PEAK ACQUISITION CORP.	FPAC	No	NYSE	4:00	Citadel Securities, LLC	3
FRBK	Republic First Bancorp Inc.	FRBK	No	NASDAQ	4:00	Susquehanna Securities	3
FRSX	FORESIGHT AUTONOMOUS HOLDINGS LTD	FRSX	No	NASDAQ	4:00	Wolverine Trading, LLC	3
FSRV	FINSERV ACQUISITION CORP	FSRV	No	NASDAQ	4:00	Wolverine Trading, LLC	3
FUSE	FUSION ACQUISITION CORP.	FUSE	No	NYSE	4:00	Wolverine Trading, LLC	3
GLOG	GasLog Ltd.	GLOG	No	NYSE	4:00	Susquehanna Securities	4
GNLN	GREENLANE HOLDINGS, INC	GNLN	No	NASDAQ	4:00	Wolverine Trading, LLC	4
GNRS	GREENROSE ACQUISITION CORP	GNRS	No	NASDAQ	4:00	Susquehanna Securities	4
GOL	GOL LINHAS AEREAS INTELIGENTIES SA	GOL	No	NYSE	4:00	Citadel Securities, LLC	4
HAAC	HEALTH ASSURANCE ACQUISITION CORP	HAAC	No	NASDAQ	4:00	Citadel Securities, LLC	4
HGEN	HUMANIGEN INC	HGEN	No	NASDAQ	4:00	Citadel Securities, LLC	4
HOL	HOLICITY INC	HOL	No	NASDAQ	4:00	Susquehanna Securities	4
HYFM	HYDROFARM HOLDINGS GROUP, INC	HYFM	No	NASDAQ	4:00	Citadel Securities, LLC	4
HYMC	HYCROFT MINING HOLDING	HYMC	No	NASDAQ	4:00	Citadel Securities, LLC	4
HZON	HORIZON ACQUISITION CORP. II	HZON	No	NYSE	4:00	Citadel Securities, LLC	4
IMH	Impac Mortgage Holdings Inc	IMH	No	AMEX	4:00	Citadel Securities, LLC	5
IRBO	iShares Robo and Artificial Intel Multisector ETF	IRBO	No	NYSE Arca	4:00	Wolverine Trading, LLC	5
IZEA	IZEA WORLDWIDE, INC.	IZEA	No	NASDAQ	4:00	Susquehanna Securities	5
LESL	LESLIES INC	LESL	No	NASDAQ	4:00	Citadel Securities, LLC	5
LODE	Comstock Mining, Inc.	LODE	No	AMEX	4:00	Wolverine Trading, LLC	5
MLSS	MILESTONE SCIENTIFIC, INC	MLSS	No	AMEX	4:00	Wolverine Trading, LLC	6
MOGO	MOGO INC	MOGO	No	NASDAQ	4:00	Wolverine Trading, LLC	6

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MREO	MEREO BIOPHARMA GROUP PLC SPONSORED ADR	MREO	No	NASDAQ	4:00	Susquehanna Securities	6
NCTY	THE9 LTD. SPONSORED ADR	NCTY	No	NASDAQ	4:00	Susquehanna Securities	6
NGAC	NEXTGEN ACQUISITION CORP	NGAC	No	NASDAQ	4:00	Wolverine Trading, LLC	6
NXE	NEXGEN ENERGY LTD.	NXE	No	AMEX	4:00	Wolverine Trading, LLC	6
OCDX	ORTHO CLINICAL DIAGNOSTICS	OCDX	No	NASDAQ	4:00	Susquehanna Securities	7
OCGN	OCUGEN INC	OCGN	Yes	NASDAQ	4:00	Citadel Securities, LLC	7
PACE	TPG PACE TECH OPPORTUNITY	PACE	No	NYSE	4:00	Susquehanna Securities	7
PAE	PAE INCORPORATED	PAE	No	NASDAQ	4:00	Wolverine Trading, LLC	7
PARR	Par Pacific Holdings, Inc.	PARR	No	NYSE	4:00	Wolverine Trading, LLC	7
PAVM	PAVMED INC	PAVM	No	NASDAQ	4:00	Susquehanna Securities	7
PDAC	PERIDOT ACQUISITION CORP	PDAC	No	NYSE	4:00	Susquehanna Securities	7
PHIO	PHIO PHARMACEUTICALS CORP.	PHIO	No	NASDAQ	4:00	Citadel Securities, LLC	7
PIPP	PINE ISLAND ACQUISITION CORP	PIPP	No	NYSE	4:00	Wolverine Trading, LLC	7
POTX	GLOBAL X CANNABIS ETF	POTX	No	NASDAQ	4:00	Susquehanna Securities	7
PRPB	CC NEUBERGER PRINCIPAL HOLDINGS II	PRPB	No	NYSE	4:00	Citadel Securities, LLC	7
PTMN	Portman Ridge Finance Corporation	PTMN	No	NASDAQ	4:00	Citadel Securities, LLC	7
PXJ	Invesco Dynamic Oil & Gas Services ETF	PXJ	No	NYSE Arca	4:00	Citadel Securities, LLC	7
RBAC	REDBALL ACQUISITION CORP.	RBAC	No	NYSE	4:00	Susquehanna Securities	7
RTP	REINVENT TECHNOLOGY	RTP	No	NYSE	4:00	Wolverine Trading, LLC	7
RWLK	REWALK ROBOTICS LTD.	RWLK	No	NASDAQ	4:00	Susquehanna Securities	7
SEEL	SEELOS THERAPEUTICS, INC	SEEL	No	NASDAQ	4:00	Susquehanna Securities	8
SINO	SINO-GLOBAL SHIPPING AMERICA, LTD.	SINO	No	NASDAQ	4:00	Susquehanna Securities	8
SOAC	SUSTAINABLE OPPORTUNITIES ACQUISITION CORPORATION	SOAC	No	NYSE	4:00	Citadel Securities, LLC	8
SPKE	Spark Energy Inc	SPKE	No	NASDAQ	4:00	Citadel Securities, LLC	8

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SPRQ	SPARTAN ACQUISITION CORP II	SPRQ	No	NYSE	4:00	Wolverine Trading, LLC	8
SRGA	Surgalign Holdings, Inc.	SRGA	No	NASDAQ	4:00	Susquehanna Securities	8
SSPK	SILVER SPIKE ACQUISITION CORP	SSPK	No	NASDAQ	4:00	Wolverine Trading, LLC	8
STXS	STEREOTAXIS, INC.	STXS	No	AMEX	4:00	Susquehanna Securities	8
SUBZ	ROUNDHILL STREAMING SERVICES & TECHNOLOGY ETF	SUBZ	No	NYSE Arca	4:00	Susquehanna Securities	8
SUP	SUPERIOR INDUSTRIES INT	SUP	No	NYSE	4:00	Citadel Securities, LLC	8
SVAC	STARBOARD VALUE ACQUISITION	SVAC	No	NASDAQ	4:00	Wolverine Trading, LLC	8
TBA	THOMA BRAVO ADVANTAGE	TBA	No	NYSE	4:00	Wolverine Trading, LLC	8
TBK	TRUMPH BANCORP INC	TBK	No	NASDAQ	4:00	Citadel Securities, LLC	8
THCA	TUSCAN HOLDINGS CORP. II	THCA	No	NASDAQ	4:00	Susquehanna Securities	8
THCB	TUSCAN HOLDINGS CORP	THCB	No	NASDAQ	4:00	Wolverine Trading, LLC	8
TTI	TETRA Technologies, Inc.	TTI	No	NYSE	4:00	Wolverine Trading, LLC	8
TTT	ProShares UltraPro Short 20+ Year Treasury	TTT	No	NYSE Arca	4:00	Citadel Securities, LLC	8
TYME	TYME Technologies Inc	TYME	No	NASDAQ	4:00	Citadel Securities, LLC	8
UAVS	AGEAGLE AERIAL SYSTEM INC.	UAVS	No	AMEX	4:00	Susquehanna Securities	9
VISL	VISLINK TECHNOLOGIES, INC.	VISL	No	NASDAQ	4:00	Susquehanna Securities	9
VRTV	Veritiv Corporation	VRTV	No	NYSE	4:00	Susquehanna Securities	9
WIFI	Boingo Wireless Inc	WIFI	No	NASDAQ	4:00	Citadel Securities, LLC	10
WOW	WideOpenWest, Inc.	WOW	No	NYSE	4:00	Morgan Stanley	10
WPF	FOLEY TRASIMENE ACQUISITION CORP.	WPF	No	NYSE	4:00	Susquehanna Securities	10
XAIR	BEYOND AIR INC	XAIR	No	NASDAQ	4:00	Wolverine Trading, LLC	10
XM	QUALTRICS INTERNATIONAL	XM	No	NASDAQ	4:00	Wolverine Trading, LLC	10
ZNTE	ZANITE ACQUISITIONS CORP	ZNTE	No	NASDAQ	4:00	Susquehanna Securities	11

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