Daily schedule for Miami topical physics conference 12-19 December 2025

Please point out any corrections by sending email to

curtright@miami.edu

This version incorporates all modifications as of

12/2/2025 12:08

This is a tentative schedule. Exact times may change. Please *reload* this file occasionally to see any changes.

Times shown here are Miami Time = Eastern Standard Time = UTC - 5:00.

10:00-10:30			
10:30-11:00	Arrival	Arrival & Registration	
11:00-11:30	Arr	Arrivar & Registration	
11:30-12:00			
12:00-12:30			
12:30-1:00			
1:00-1:30		Lunch Break	(Lunch is not provided by the organizers.)
1:30-2:00		Lanch Break	(Lunch is not provided by the organizers.)
2:00-2:30			
2:30-3:00			
3:00-3:30	E	Curtright	Welcome and Introduction
3:30-4:00	Exordium	Hoq	Scalar Field Theories with Non-Polynomial Lagrangians
4:00-4:30	ixo	Alshal	TBD
4:30-5:00	Ш		
5:00-5:30			



10:00-10:30		Chiodini	Overview of Recent Results from the ATLAS Experiment
10:30-11:00	E E	Stelzer	Highlights on Higgs Physics with ATLAS
11:00-11:30	二	Romano	Highlights of SM Measurements Including Top with the ATLAS Experiment at the LHC
11:30-12:00		Otero y Garzón	Recent Searches for New Phenomena with the ATLAS Detector
12:00-12:30			
12:30-1:00			
1:00-1:30		Lunch Break	(Lunch is not provided by the organizers.)
1:30-2:00		Lunch Break	(Lunch is not provided by the organizers.)
2:00-2:30			
2:30-3:00			
3:00-3:30	ဟ	МсСоу	BSM and Neutrino Physics with the FASER Detector
3:30-4:00	Neutrinos	<u>Ramond</u>	Neutrinos Have Come a Long Way
4:00-4:30	leut	Gogoladze	Flavour Symmetry and the Gravitational Wave Background
4:30-5:00			
5:00-5:30			



10:00-10:30		Bartos	TBD
10:30-11:00	OSIT	Casallas Lagos	Estimating the General Evolution of the Core-collapse Supernova High Frequency Feature in Interferometric Noise
11:00-11:30	\exists	Dutta Roy	Search for Gravitational-Wave Burst Candidates in LIGO-Virgo-KAGRA O4a Using the cWB-XP Pipeline
11:30-12:00		Klimenko	Observations of intermediate mass black holes with LIGO
12:00-12:30			
12:30-1:00			
1:00-1:30		Lunch Break	(Lunch is not provided by the organizers)
1:30-2:00		Lunch Break	(Lunch is not provided by the organizers.)
2:00-2:30			
2:30-3:00			
3:00-3:30		Kumar	Probing remnant properties of binary black hole mergers using a novel ringdown analysis
3:30-4:00	CIIGO	Szczepanczyk	The next ten years of core-collapse supernova gravitational-wave astronomy
4:00-4:30	\exists	Vivekananthaswamy	TBD
4:30-5:00		Xue	From LIGO to LISA: Black Hole Mergers and EMRI Formation in AGN Disks
5:00-5:30			



10:00-10:30	<u>S</u>		
10:30-11:00	hys	Gleyzer	Machine Learning for High Energy Physics and Astrophysics
11:00-11:30	Astrophysics	Fornal	New Gravitational Wave Signatures of Theories with Extended Gauge Symmetries
11:30-12:00	As	<u>Daly</u>	Supermassive Black Holes and the Low Frequency Gravitational Wave Background
12:00-12:30			
12:30-1:00			
1:00-1:30		Lunch Break	(Lunch is not provided by the organizers.)
1:30-2:00		Lunch Break	(Lunch is not provided by the organizers.)
2:00-2:30			
2:30-3:00			
3:00-3:30	H-	Turbiner	Instanton Vacua in Quantum Mechanics
3:30-4:00	. QFT	Shifman	Instantons, sphalerons and all that in scalar QFT with $N=1,2$: tunneling in topologically nontrivial ground states
4:00-4:30	QM &	Minic	The Weight of the Quantum
4:30-5:00	Ø		
5:00-5:30			



10:00-10:30	<u>D</u>	Manson	Fine-tuning and the Multiverse
10:30-11:00	FineTuning	Boyce	Fine-Tuning is Not Evidence for a Multiverse
11:00-11:30	neT	Castano	Measures of Fine-tuning
11:30-12:00	证	Matchev, Poston, Ramond, et al.	Philosophy & Fine-tuning: A Panel Discussion
12:00-12:30			
12:30-1:00			
1:00-1:30		Lunah Drast	(Lunch is not provided by the exemples)
1:30-2:00		Lunch Break	(Lunch is not provided by the organizers.)
2:00-2:30			
2:30-3:00			
3:00-3:30		Roman	Orchestral AI: Accelerating Scientific Discovery with Agentic Workflows
3:30-4:00	and ML	Menzo	Agents in HEP
4:00-4:30	lan	Matchev	AI in HEP and Beyond
4:30-5:00	₹	Zuniga-Galindo	Statistical Field Theory of Deep Neural Networks: An Approach to Deep Learning Ultrametric



10:00-10:30			
10:30-11:00	LHC	Thomas	Recent Highlights from the ALICE Experiment at LHC (virtual talk)
11:00-11:30	二	Colafranceschi	Large-Scale Production and Implementation of the CMS ME0 GEM Detector for HL-LHC
11:30-12:00		Pfaller	Recent Results of LHCb
12:00-12:30			
12:30-1:00			
1:00-1:30		Lunch Break	(Lunch is not provided by the organizers.)
1:30-2:00		Lunch Break	(Lunch is not provided by the organizers.)
2:00-2:30			
2:30-3:00			
3:00-3:30	_	Matcheva	Quantum Machine Learning for Analyzing Exoplanet Transmission Spectra
3:30-4:00	<u>~</u> ∞	Stojkovic	Physics from Quantum Information
4:00-4:30	ž	Buniy	Degrees of Entanglement of Dicke States of Qubits
4:30-5:00	Ø	McCarty	Development of the one loop computation for nonperturbative SU(2) Yang Mills
5:00-5:30			

10:00-10:30 10:30-11:00	Matter		TBD Dynamical Tension Strings with Target Scale Symmetry producing DE, DM, and why 4D?
11:00-11:30	ξ		The Kähler-Fisher Framework for Fuzzy Dark Matter: Stability, Entropy, and Observational Constraints
11:30-12:00	Dark	·	Towards a Common Fundamental Source of Inflation, Dark Matter, and Dark Energy within Thomas-Whitehead Gravity
12:00-12:30		Stille.	Total as a common and mental scaled of middless, but matter, and but Energy minim months trintened cravity
12:30-1:00			
1:00-1:30		Lunch Brook	(Lunch is not provided by the organizers.)
1:30-2:00		Lunch Break	
2:00-2:30			
2:30-3:00			
3:00-3:30			
3:30-4:00	STGM	Domomhoring Luca Mazincassu	Various speakers
4:00-4:30	ST(Remembering Luca Mezincescu	
4:30-5:00			
5:00-5:30			

10:00-10:30			
10:30-11:00	Duality	<u>Curtright</u>	Duality and Phase Space Quantization
11:00-11:30	ñ	Kephart I	Magnetic Monopoles as Ultra High Energy Cosmic Rays
11:30-12:00		Frampton	ГВD
12:00-12:30			
12:30-1:00			
1:00-1:30		Lunch Break	(Lunch is not provided by the organizers.)
1:30-2:00		Editeri Break	(Lunch is not provided by the organizers.)
2:00-2:30			
2:30-3:00			
3:00-3:30			
3:30-4:00	Finis	Thank you for attending Miami 2025	Safe travels!
4:00-4:30	证	Thank you for accertaing what 2023	Safe davels.
4:30-5:00			
5:00-5:30			

	link to Abs		
Speaker	Link	Talk title	Affiliation
Alshal		TBD	Santa Clara University
Bartos		TBD	University of Florida
Boyce	<u>20</u>	Fine-Tuning is Not Evidence for a Multiverse	University of Missouri
Buniy	<u>25</u>	Degrees of Entanglement of Dicke States of Qubits	Chapman University
Casallas Lagos	<u>26</u>	Estimating the General Evolution of the Core-collapse Supernova High Frequency Feature in Interferometric Noise	University of Warsaw
Castano		Measures of Fine-tuning	Nova Southeastern University
Chiodini	<u>15</u>	Overview of Recent Results from the ATLAS Experiment	INFN Lecce
Colafranceschi	<u>16</u>	Large-Scale Production and Implementation of the CMS ME0 GEM Detector for HL-LHC	James Madison University
Curtright	<u>3</u>	Duality and Phase Space Quantization	University of Miami
Daly	<u>10</u>	Supermassive Black Holes and the Low Frequency Gravitational Wave Background	Penn State University
Dutta Roy	<u>38</u>	Search for Gravitational-Wave Burst Candidates in LIGO-Virgo-KAGRA O4a Using the cWB-XP Pipeline	University of Florida
Edmonds		TBD	Penn State University
Evans		No talk	University of North Carolina
Fornal	<u>36</u>	New Gravitational Wave Signatures of Theories with Extended Gauge Symmetries	Barry University
Frampton		TBD	University of Salento
Gleyzer		Machine Learning for High Energy Physics and Astrophysics	University of Alabama
Gogoladze	<u>33</u>	Flavour Symmetry and the Gravitational Wave Background	University of Delaware
Guendelman	<u>2</u>	Dynamical Tension Strings with Target Scale Symmetry producing DE, DM and why 4D?	Ben Gurion University of the Negev
Hoq		Scalar Field Theories with Non-Polynomial Lagrangians	University of Miami
Kephart		Magnetic Monopoles as Ultra High Energy Cosmic Rays	Vanderbilt University
Klimenko		Observations of intermediate mass black holes with LIGO	University of Florida
Kumar		Probing remnant properties of binary black hole mergers using a novel ringdown analysis	University of Florida
Manson	<u>6</u>	Fine-tuning and the Multiverse	University of Mississippi
Matchev	<u>21</u>	Al in HEP and Beyond	University of Alabama
Matcheva	<u>27</u>	Quantum Machine Learning for Analyzing Exoplanet Transmission Spectra	University of Alabama
McCarty	<u>23</u>	Development of the one loop computation for nonperturbative SU(2) Yang Mills	Atlanta
McCoy	<u>18</u>	BSM and Neutrino Physics with the FASER Detector	U C Irvine
Menzo	<u>22</u>	Agents in HEP	University of Alabama
Minic	<u>5</u>	The Weight of the Quantum	Virginia Tech
Otero y Garzón	<u>13</u>	Recent Searches for New Phenomena with the ATLAS Detector	University of Buenos Aires
Pfaller	<u>31</u>	Recent Results of LHCb	University of Cincinnati



Linkto	Talk title	Affiliation
<u>32</u>	Philosophy & Fine-tuning	University of Alabama
	No talk	University of Miami
<u>19</u>	Neutrinos Have Come a Long Way	University of Florida
<u>28</u>	Orchestral AI: Accelerating Scientific Discovery with Agentic Workflows	University of Alabama
<u>9</u>	Highlights of SM Measurements Including Top with the ATLAS Experiment at the LHC	INFN - Bologna
<u>7</u>	The Kähler-Fisher Framework for Fuzzy Dark Matter: Stability, Entropy, and Observational Constraints	Miami University (Ohio)
	Instantons, sphalerons and all that in scalar QFT with $N=1,2$: tunneling in topologically nontrivial ground states	University of Minnesota
<u>11</u>	Highlights on Higgs Physics with ATLAS	Simon Fraser University
<u>24</u>	Towards a Common Fundamental Source of Inflation, Dark Matter, and Dark Energy within Thomas-Whitehead Gravity	University of Iowa
<u>14</u>	Physics from Quantum Information	SUNY at Buffalo
	The next ten years of core-collapse supernova gravitational-wave astronomy	University of Warsaw
<u>30</u>	Recent Highlights from the ALICE Experiment at LHC	University of Texas - Austin
<u>17</u>	Instanton Vacua in Quantum Mechanics	UNAM & Stony Brook
	No talk	Paris
	No talk	University of Miami
	TBD	University of Wisconsin Milwaukee
<u>35</u>	From LIGO to LISA: Black Hole Mergers and EMRI Formation in AGN Disks	University of Florida
<u>1</u>	Statistical Field Theory of Deep Neural Networks: An Approach to Deep Learning Ultrametric	University of Texas Rio Grande Valley
	32 19 28 9 7 11 24 14 30 17	Philosophy & Fine-tuning No talk Neutrinos Have Come a Long Way Crchestral Al: Accelerating Scientific Discovery with Agentic Workflows Highlights of SM Measurements Including Top with the ATLAS Experiment at the LHC The Kähler-Fisher Framework for Fuzzy Dark Matter: Stability, Entropy, and Observational Constraints Instantons, sphalerons and all that in scalar QFT with N=1,2: tunneling in topologically nontrivial ground states Highlights on Higgs Physics with ATLAS Towards a Common Fundamental Source of Inflation, Dark Matter, and Dark Energy within Thomas-Whitehead Gravity Physics from Quantum Information The next ten years of core-collapse supernova gravitational-wave astronomy Recent Highlights from the ALICE Experiment at LHC Instanton Vacua in Quantum Mechanics No talk No talk TBD From LIGO to LISA: Black Hole Mergers and EMRI Formation in AGN Disks