

TeVPA 2022

Monday, August 8, 2022 - Friday, August 12, 2022

Program

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Monday, August 8, 2022

Registration (Aug 8, 2022, 8:00 AM - 8:45 AM)

Welcome & Introductory remarks (Aug 8, 2022, 8:45 AM - 9:00 AM)

Plenary session: BioSci 1101 (Aug 8, 2022, 9:00 AM - 10:00 AM)

-Conveners: Rebecca Leane

time	title	presenter
9:00 AM	Dark Matter in Extreme Environments	KAVANAGH, Bradley
9:30 AM	Searches for new particles in bound solar orbits	SCHUTZ, Katelin

Coffee (10:00 AM - 10:30 AM)

Plenary session: BioSci 1101 (Aug 8, 2022, 10:30 AM - 12:00 PM)

-Conveners: Dan Hooper

time	title	presenter
10:30 AM	Overview of the recent results and future developments of the Telescope Array experiment	KIDO, Eiji
11:00 AM	Very to Ultra-High-Energy Gamma-ray Astrophysics with Ground-Based Particle Detection Arrays	HUENTEMEYER, Petra
11:30 AM	Latest results and the upgrade of the Pierre Auger Observatory	SARAZIN, Fred

Cosmic Rays: I - BioSci 1102 (Aug 8, 2022, 2:00 PM - 3:20 PM)

-Conveners: Pedro De la Torre Luque

time	title	presenter
2:00 PM	Force-Field Model of Galactic Cosmic Ray Propagation in the Inner Heliosphere	LI, Jung-Tsung
2:20 PM	Precision Measurement of Daily Electron, Positron, Proton, and Helium Fluxes with the Alpha Magnetic Spectrometer	JIA, Yi
2:40 PM	Precision Measurement of the Monthly Proton, Helium, Carbon and Oxygen Fluxes in Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station	DONNINI, Federico

Cosmology: I - Stirling Auditorium (Aug 8, 2022, 2:00 PM - 3:20 PM)

-Conveners: Keir Rogers

time	title	presenter
2:00 PM	An Effective Field Theory of 21 cm Radiation with Redshift Space Distortions	QIN, Wenzer
2:20 PM	Hubble distancing: Focusing on distance measurements in cosmology	GREENE, Kylar
2:40 PM	Intergalactic medium as a probe of fundamental physics	SOKOLENKO, Anastasia
3:00 PM	A Poisson Log-Normal Framework for Cosmological Parameter Inference Using Dark Sirens	KIM, J. Leo

Dark Matter: I - BioSci 1101 (Aug 8, 2022, 2:00 PM - 3:20 PM)**-Conveners: Ilias Cholis**

time	title	presenter
2:00 PM	Mirror Stars and other probes of Dark Complexity	CURTIN, David
2:20 PM	Discovering Composite Dark Matter with the Migdal Effect	ACEVEDO, Javier
2:40 PM	Primordial Black Hole Dark Matter in the Context of Extra Dimensions	FRIEDLANDER, Avi
3:00 PM	Q-monopole-ball: a topological and nontopological soliton	ORLOFSKY, Nicholas

Galactic Sources: I - Chernoff Auditorium (Aug 8, 2022, 2:00 PM - 3:20 PM)**-Conveners: Lars Mohrmann**

time	title	presenter
2:00 PM	Gamma-ray emission from young supernova remnants in dense, structured circumstellar environments	B., Robert
2:20 PM	Supernova remnants at TeV energies with VERITAS	KUMAR, Sajan
2:40 PM	The formation of gamma-ray halos around supernova remnants through particle escape	B., Robert
3:00 PM	Gone with the breeze: A subsonic solution to the Fermi bubbles problem	TOURMENTE, Olivier

Neutrinos: I - Humphrey Auditorium (Aug 8, 2022, 2:00 PM - 3:20 PM)**-Conveners: Shigeo Kimura**

time	title	presenter
2:00 PM	Search for correlations between high-energy neutrinos and blazars with IceCube	LAGUNAS GUALDA, Cristina
2:20 PM	Search for High-Energy Neutrinos from TDE-like Flares with IceCube	NECKER, Jannis David
2:40 PM	Ultrahigh-energy cosmic-ray induced gamma-ray and neutrino fluxes from blazars	RAZZAQUE, Soebur
3:00 PM	Propagation of Cosmic Rays in Plasmoids of AGN Jets-Implications for Multimessenger Predictions	JAROSCHEWSKI, Ilja

Coffee Break (3:20 PM - 3:50 PM)**Dark Matter: II - BioSci 1101 (Aug 8, 2022, 3:50 PM - 5:10 PM)****-Conveners: David Curtin**

time	title	presenter
3:50 PM	Search for gamma-ray spectral lines from Dark Matter annihilation in the Galactic Centre region with MAGIC	KERSZBERG, Daniel
4:10 PM	The Status of the Galactic Center Excess	HOOPER, Dan
4:30 PM	Assessing the Impact of Hydrogen Absorption on the Characteristics of the Galactic Center Excess	POHL, martin
4:50 PM	Revisiting the Gamma-Ray Galactic Center Excess with Multi-Messenger Observations	CHOLIS, Ilias

Extragalactic Sources: I - Stirling Auditorium (Aug 8, 2022, 3:50 PM - 5:30 PM)**-Conveners: Alberto Berti**

time	title	presenter
3:50 PM	A multi-wavelength spectral characterization of gamma-ray emitting extreme BL Lacertae blazar candidates hidden in Fermi-LAT data.	NIEVAS, Mireia
4:10 PM	Absorption features in gamma-ray spectra of BL Lac objects	FOFFANO, Luca
4:30 PM	Multi-messenger characterization of Mrk501 during historically low X-ray and γ -ray activity	HECKMANN, Lea Alina
4:50 PM	Multiwavelength observations of the extreme HBL H 1426+428	O'BRIEN, Stephan
5:10 PM	High-energy gamma-rays from magnetically arrested disks in nearby radio galaxies	KUZE, Riku

Gamma Rays: I - BioSci 1102 (Aug 8, 2022, 3:50 PM - 5:10 PM)

-Conveners: Marcel Strzys

time	title	presenter
3:50 PM	Unresolved sources naturally contribute to PeV γ -ray diffuse emission observed by Tibet AS γ	VECCHIOTTI, Vittoria
4:10 PM	Implications from 3-dimensional modeling of gamma-ray signatures in the Galactic Center	DÖRNER, Julien
4:30 PM	Comparison between PeVatron candidates in the HAWC and LHAASO Data Sets	WANG, Xiaojie
4:50 PM	HAWC Observations of Gamma rays from the Quiescent Sun	NISA, Mehr Un

Gravitational Wave and Multimessenger: I - Chernoff Auditorium (Aug 8, 2022, 3:50 PM - 5:10 PM)

-Conveners: Michael Fedderke

time	title	presenter
3:50 PM	Searching for Gamma- and hard X-ray Counterparts to Gravitational-wave events in GWTC-3 with Fermi-GBM and Swift-BAT	CRNOGORCEVIC, Milena
4:10 PM	Recent updates on the VERITAS multimessenger program: searching for electromagnetic counterparts of high-energy neutrino and gravitational-wave events	JIN, Weidong
4:30 PM	Prediction of high-energy neutrino signals associated with gravitational waves: effects of kilonova photons	MATSUI, Riki
4:50 PM	GW follow-up in the VHE domain with H.E.S.S.	ZHU, Sylvia Jiechen

Neutrinos: II - Humphrey Auditorium (Aug 8, 2022, 3:50 PM - 5:10 PM)

-Conveners: Thomas McElroy

time	title	presenter
3:50 PM	Latest results from the CUORE experiment	SINGH, Vivek
4:10 PM	LEGEND-1000: a future ton-scale experiment for Neutrinoless Double Beta Decay	MORELLA, Michele
4:30 PM	Neutrino Oscillations with IceCube and the IceCube Upgrade	KOSKINEN, David Jason
4:50 PM	MUTE: A Modern Calculation for Deep Underground and Underwater Muons	PIRO, Marie-Cécile

Social at Agnes Etherington Art Centre (5:30 PM - 7:00 PM)

Tuesday, August 9, 2022

Plenary session: BioSci 1101 (Aug 9, 2022, 9:00 AM - 10:00 AM)

-Conveners: Carlos A. Argüelles-Delgado

time	title	presenter
9:00 AM	The ANTARES adventure	KOUCHNER, Antoine David
9:30 AM	A decade of discoveries with Cherenkov neutrino telescopes	LU, Lu

Coffee (10:00 AM - 10:30 AM)

Plenary session: BioSci 1101 (Aug 9, 2022, 10:30 AM - 12:00 PM)

-Conveners: Martin Pohl

time	title	presenter
10:30 AM	High-Energy Neutrinos: A New Trail Towards New Physics	ARGÜELLES-DELGADO, Carlos A.
11:00 AM	Neutrinos from blazars five years after the IC170922A / TXS0506+056 event	CERRUTI, Matteo
11:30 AM	Young Stellar Clusters: a new player in the field of Cosmic Ray origin	MORLINO, Giovanni

Cosmic Rays: II - BioSci 1101 (Aug 9, 2022, 2:00 PM - 3:20 PM)

-Conveners: Morlino Giovanni

time	title	presenter
2:00 PM	The FLUKA cross sections for cosmic-ray propagation studies	DE LA TORRE LUQUE, Pedro
2:20 PM	Isotopic composition of cosmic rays with the HELIX balloon project	MCBRIDE, Keith
2:40 PM	Unique Properties of Secondary Cosmic Rays: Results from the Alpha Magneti Spectrometer	CHEN, Yao
3:00 PM	Unique Properties of Cosmic H, He, Li and Be Isotopes	WEI, Jiahui

Dark Matter: III - Stirling Auditorium (Aug 9, 2022, 2:00 PM - 3:20 PM)

-Conveners: Seodong Shin

time	title	presenter
2:00 PM	Searching for Dark Matter with the DAMIC at SNOLAB Experiment	LAWSON, Ian
2:20 PM	General Dark Matter-Electron Interactions in Detector Materials	URDSHALS, Einar
2:40 PM	Dark Matter from Monogem: Constraints on Velocity-Dependent Dark Matter-Nucleus Scattering	CAPPIELLO, Christopher
3:00 PM	Cosmic-ray Neutrino Boosted Dark Matter (vBDM)	PARK, Jong-Chul

Dark Matter: IV - Chernoff Auditorium (Aug 9, 2022, 2:00 PM - 3:20 PM)

-Conveners: Daniel Gilman

time	title	presenter
2:00 PM	A machine learning approach to searching dark matter subhalos in Fermi-LAT sources	NIPPEL, Kathrin
2:20 PM	Combined dark matter searches towards dwarf spheroidal galaxies with Fermi-LAT, HAWC, H.E.S.S., MAGIC, and VERITAS	ARMAND, Celine

2:40 PM	Constraining Dark Matter Decays at the keV Scale with the NuSTAR Observatory	ROACH, Brandon
3:00 PM	Searching for Secluded Dark Matter with Present and Future Gamma-ray Observatories	VIANA, Aion

Extragalactic Sources: II - Humphrey Auditorium (Aug 9, 2022, 2:00 PM - 3:20 PM)

-Conveners: Cecilia Lunardini

time	title	presenter
2:00 PM	Electron pre-acceleration through Stochastic Shock Drift Acceleration at shocks in merging galaxy clusters	NIEMIEC, Jacek
2:20 PM	Gamma-ray and neutrino emissions from star-forming and starburst galaxies	CHIANESE, Marco
2:40 PM	Gamma-ray and neutrino emission from radiatively inefficient accretion flows	KIMURA, Shigeo
3:00 PM	VERITAS Observations of Fast Radio Bursts	LUNDY, Matthew

Neutrinos: III - BioSci 1102 (Aug 9, 2022, 2:00 PM - 3:20 PM)

-Conveners: steven prohira

time	title	presenter
2:00 PM	Tau Appearance from High-Energy Neutrino Interactions	ZHELNIN, Pavel
2:20 PM	A model independent framework for measuring the neutrino-nucleon cross section at UHE neutrino detectors	PROHIRA, steven
2:40 PM	Point sources of ultra-high-energy neutrinos: minimalist predictions for near-future discovery	FIORILLO, Damiano
3:00 PM	Exploring neutrino-matter interactions at the EeV energy frontier	VALERA BACA, Victor Branco

Coffee (3:20 PM - 3:50 PM)

Cosmic Rays: III - BioSci 1101 (Aug 9, 2022, 3:50 PM - 5:10 PM)

-Conveners: Francesca Giovacchini

time	title	presenter
3:50 PM	Unique Properties of Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer	JIA, Yi
4:10 PM	Unique Properties of the 3rd Group of Cosmic Rays: Results from the Alpha Magnetic Spectrometer	FORMATO, Valerio
4:30 PM	Testing the universality of cosmic-ray nuclei from protons to oxygen with AMS-02	KORSMEIER, Michael
4:50 PM	The High Energy cosmic Radiation Detector	FORMATO, Valerio

Dark Matter: VI - Chernoff Auditorium (Aug 9, 2022, 3:50 PM - 5:30 PM)

-Conveners: Aion Viana

time	title	presenter
3:50 PM	Constraining resonant dark matter self-interactions with strong gravitational lenses	GILMAN, Daniel
4:10 PM	Using small-scale lensing anisotropies to constrain dark matter.	DHANASINGHAM, Birendra

4:30 PM	Searching for the fundamental nature of dark matter in the cosmic large-scale structure	ROGERS, Keir
4:50 PM	Jeans Model Beyond Spherical Symmetry	SMITH-ORLIK, Adam
5:10 PM	Measuring dark matter subhalos in strong lenses with truncated marginal neural ratio estimation	COOGAN, Adam

Dark Matter: V - Stirling Auditorium (Aug 9, 2022, 3:50 PM - 5:10 PM)

-Conveners: Christopher Cappiello

time	title	presenter
3:50 PM	Signatures of primordial black hole dark matter at DUNE and THEIA	DE ROMERI, Valentina
4:10 PM	Direct detection of light new species from evaporating primordial black holes	CHIANESE, Marco
4:30 PM	Hidden dynamics of a sub-component dark matter	SHIN, Seodong
4:50 PM	Ab initio calculations of structure factors for dark matter searches	HU, Baishan

Gamma Rays: II - Humphrey Auditorium (Aug 9, 2022, 3:50 PM - 5:10 PM)

-Conveners: Stephan O'Brien

time	title	presenter
3:50 PM	First Science Results from the Large-Sized Telescope prototype for The Cherenkov Telescope Array	GREEN, David
4:10 PM	The SST-1M gamma-ray mini-array - results of early operations	NIEMIEC, Jacek
4:30 PM	Status, performance and results of the Large-Sized Telescope prototype for the Cherenkov Telescope Array	KERSZBERG, Daniel
4:50 PM	Southern Wide-field Gamma-ray Observatory (SWG0)	SMITH, Andrew

Neutrinos: IV - BioSci 1102 (Aug 9, 2022, 3:50 PM - 5:10 PM)

-Conveners: Soebur Razzaque

time	title	presenter
3:50 PM	IceCube Matter-Enhanced Sterile Neutrino Searches	SMITHERS, Benjamin
4:10 PM	Simulating neutrino echoes induced by secret neutrino interactions	CARPIO, Jose
4:30 PM	Towards Powerful Probes of Neutrino Self-Interactions in Supernovae	CHANG, Po Wen

Wednesday, August 10, 2022

Plenary session (Aug 10, 2022, 9:00 AM - 10:00 AM)

-Conveners: Guillaume Giroux

time	title	presenter
9:00 AM	Search for "Light" Dark Matter and CEvNS with NEWS-G and SBC experiments	PIRO, Marie Cécile
9:30 AM	Direct detection of dark matter at higher masses	LIPPINCOTT, Hugh

Coffee (10:00 AM - 10:30 AM)

Plenary session (Aug 10, 2022, 10:30 AM - 12:00 PM)

-Conveners: Bradley Kavanagh

time	title	presenter
10:30 AM	Dark Matter in Celestial Objects	LEANE, Rebecca
11:00 AM	Direct Detection of Low Mass Fast Moving Dark Matter	MOHLABENG, Gopolang
11:30 AM	Cosmology and Fundamental Physics with (Extreme) Blazars	NIEVAS, Mireia

Cosmic Rays: IV - Stirling Auditorium (Aug 10, 2022, 2:00 PM - 3:20 PM)

-Conveners: Valerio Formato

time	title	presenter
2:00 PM	Direct Detection of TeV—PeV Cosmic Rays in Space	TYKHONOV, Andrii
2:20 PM	Potential measurement of the primary cosmic-ray proton spectrum between 40 TeV and a few hundred TeV with the Tibet hybrid experiment (Tibet-III + MD)	YUSAKU, katayose
2:40 PM	The Surface Array Enhancement of the IceCube Neutrino Observatory	SOLDIN, Dennis
3:00 PM	Observation of Cosmic-Ray Anisotropy with Ten Years of IceCube Data	MCNALLY, Frank

Dark Matter: VII - BioSci 1101 (Aug 10, 2022, 2:00 PM - 3:20 PM)

-Conveners: Erez Etzion

time	title	presenter
2:00 PM	The NEWS-G light Dark Matter search experiment: Results of a methane gas physics campaign	DURNFORD, Daniel
2:20 PM	Latest results from DEAP-3600	VIEL, Simon
2:40 PM	DarkSide-20k experiment and its veto	WALCZAK, Marek Bohdan
3:00 PM	The DarkSide-20k TPC and underground argon cryogenic system	THORPE, Thomas Nathan

Dark Matter: VIII - BioSci 1102 (Aug 10, 2022, 2:00 PM - 3:20 PM)

-Conveners: Tomas Gonzalo

time	title	presenter
2:00 PM	A new path for dark matter searches: cross-correlation between gamma rays and gravitational tracers	PINETTI, Elena
2:20 PM	Simulation and Indirect Detection of Dark Glueball Showers	GEMMELL, Caleb

2:40 PM	Impact of the particle physics model on dark matter indirect detection limits	ARMAND, Celine
3:00 PM	Warm dark matter searches from the Galactic halo	DEKKER, Ariane

Extragalactic Sources: III - Chernoff Auditorium (Aug 10, 2022, 2:00 PM - 3:20 PM)

-Conveners: Matteo Cerruti

time	title	presenter
2:00 PM	A robust lower bound on intergalactic magnetic fields from Fermi/LAT and MAGIC observations of 1ES 0229+200	VOVK, Ievgen
2:20 PM	Intergalactic magnetic field studies by means of the gamma-ray emission from GRB 190114C	DA VELA, Paolo
2:40 PM	Galactic halo magnetic fields and UHECRs deflections	SHAW, Vasundhara
3:00 PM	Constraining Axion-Like Particles with HAWC Observations of TeV Blazars	JACOBSEN, Sunniva

Neutrinos: V - Humphrey Auditorium (Aug 10, 2022, 2:00 PM - 3:00 PM)

-Conveners: Qinrui Liu

time	title	presenter
2:00 PM	Measurement of the Astrophysical Diffuse Flux Spectrum using Muon Neutrino Events with a Contained Vertex in IceCube	SILVA, Manuel
2:20 PM	A combined analysis of the diffuse astrophysical neutrino flux using IceCube's high-energy through-going muon tracks and cascades	GANSTER, Erik
2:40 PM	Methods for a consistent treatment of systematic uncertainties in a combined analysis of IceCube's high energy neutrino data	NAAB, Richard

Coffee (3:20 PM - 3:50 PM)

Cosmic Rays: V - Stirling Auditorium (Aug 10, 2022, 3:50 PM - 5:10 PM)

-Conveners: Yi Jia

time	title	presenter
3:50 PM	Properties of Heavy Nuclei in South Atlantic Anomaly region	GIOVACCHINI, Francesca
4:10 PM	The mechanism of efficient electron acceleration at parallel non-relativistic shocks	SHALABY, Mohamad
4:30 PM	Towards Understanding the Origin of Cosmic-Ray Positrons	WENG, Zhili
4:50 PM	Antiproton Flux and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the ISS	WENG, Zhili

Dark Matter: IX - BioSci 1101 (Aug 10, 2022, 3:50 PM - 5:30 PM)

-Conveners: Marco Chianese

time	title	presenter
3:50 PM	The CYGNO experiment, a directional detector for direct Dark Matter searches	MARQUES, David J. G.
4:10 PM	Search for Dark Matter with the PICO Experiment	GIROUX, Guillaume
4:30 PM	Hunting for Sub-GeV DM with the SENSEI experiment	ETZION, Erez
4:50 PM	The SABRE South Experiment at the Stawell Underground Physics Laboratory	MELBOURNE, William

5:10 PM	The KDK experiment: measuring a rare decay of potassium relevant to dark matter searches	DI STEFANO, Philippe
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Dark Matter: X - BioSci 1102 (Aug 10, 2022, 3:50 PM - 5:10 PM)

-Conveners: Elena Pinetti

time	title	presenter
4:10 PM	Constraining axion-like particles with the diffuse gamma-ray flux measured by the Large High Altitude Air Shower Observatory	MASTROTOTARO, Leonardo
4:30 PM	Searching for Axionlike Particles from Gamma-ray Bursts with Fermi	CRNOGORCEVIC, Milena
4:50 PM	A global analysis of decaying ALPs	GONZALO, Tomas

Galactic Sources: II - Chernoff Auditorium (Aug 10, 2022, 3:50 PM - 5:10 PM)

-Conveners: Robert B.

time	title	presenter
3:50 PM	Searching for TeV emission from Galactic PeVatrons with VERITAS	BANGALE P., FOR THE VERITAS COLLABORATION.
4:10 PM	Multi-wavelength study of the galactic PeVatron candidate LHAASO J2108+5157	JURYSEK, Jakub
4:30 PM	MAGIC observations of the putative PeVatron SNR G106.3+2.7 in the proximity of the Boomerang PWN	STRZYS, Marcel STRZYS, Marcel
4:50 PM	Broadband X-ray Study of the Galactic Microquasar W50/SS433, a Galactic PeVatron Candidate	MAC INTYRE, Brydyn

Neutrinos: VI - Humphrey Auditorium (Aug 10, 2022, 3:50 PM - 4:50 PM)

-Conveners: Lu Lu

time	title	presenter
3:50 PM	Galactic and Extragalactic Southern Sky Neutrino Source Searches with IceCube Starting Track Events in the 1 to 100 TeV Energy Range.	MANCINA, Sarah
4:10 PM	Neutrino Astronomy with KM3NeT/ARCA	MULLER, Rasa
4:30 PM	The Pacific Ocean Neutrino Experiment	MCELROY, Thomas

Thursday, August 11, 2022

Plenary session (Aug 11, 2022, 9:00 AM - 10:00 AM)

-Conveners: **Jamie Holder**

time	title	presenter
9:00 AM	The All-sky Medium-Energy Gamma-ray Observatory eXplorer: AMEGO-X	PERKINS, Jeremy
9:30 AM	Measurements of Galactic Gamma-Ray Sources with Imaging Atmospheric Cherenkov Telescopes	MOHRMANN, Lars

Coffee (10:00 AM - 10:30 AM)

Plenary session (Aug 11, 2022, 10:30 AM - 12:00 PM)

-Conveners: **Antoine David Kouchner**

time	title	presenter
10:30 AM	Neutrinos and Cosmic rays from Tidal Disruption Events	LUNARDINI, Cecilia
11:00 AM	Precision neutrino physics with liquid scintillator detectors	OREBI GANN, Gabriel
11:30 AM	Radio Detection of Ultra-High Energy Neutrinos	VIEREGG, Abigail

Dark Matter: XI - Chernoff Auditorium (Aug 11, 2022, 2:00 PM - 3:20 PM)

-Conveners: **Marco Taoso**

time	title	presenter
2:00 PM	Search for dark matter signatures with ANTARES and KM3NeT	GOZZINI, Sara Rebecca
2:20 PM	Dark Matter decay to neutrinos	DELGADO LOPEZ, Diyaselis
2:40 PM	Global fit of Non-relativistic Effective Operator Dark Matter using Solar Neutrinos	AVIS KOZAR, Neal
3:00 PM	Dark Matter-neutrino interactions through a one-loop diagram	MACÍAS CÁRDENAS, Karen

Dark Matter: XII - Stirling Auditorium (Aug 11, 2022, 2:00 PM - 3:20 PM)

-Conveners: **Philip Von Doetinchem**

time	title	presenter
2:00 PM	Velocity-dependent dark matter annihilation from simulations	BOZORGNIA, Nassim
2:20 PM	Dark Matter Annihilations in Massive Stars: A New Lease on Life?	ZIEGLER, Joshua
2:40 PM	Faint light of old neutron stars from dark matter capture and detectability at the James Webb Space Telescope	CHATTERJEE, Shiuli

Extragalactic Sources: IV - BioSci 1102 (Aug 11, 2022, 2:00 PM - 3:20 PM)

-Conveners: **Jeremy Perkins**

time	title	presenter
2:00 PM	The MAGIC view of gamma-ray bursts at very high energies	BERTI, Alessio
2:20 PM	Probing the multiwavelength emission scenario of GRB 190114C	ZHU, Sylvia Jiechen
2:40 PM	A preliminary population study of gamma ray bursts detected in the very high energy domain	MICELI, Davide

3:00 PM	Closing In on The MeV Gap - An Introduction to Compton Spectrometer and Imager (COSI)	ROBERTS, Jarred
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Galactic Sources: III - Humphrey Auditorium (Aug 11, 2022, 2:00 PM - 3:20 PM)

-Conveners: Julian Sitarek

time	title	presenter
2:00 PM	Spectrum of Pairs injected by Geminga into the Interstellar Medium	SCHROER, Benedikt
2:20 PM	VERITAS observations of gamma-ray binary systems.	HOLDER, Jamie
2:40 PM	Anisotropic diffusion cannot explain TeV halos	DE LA TORRE LUQUE, Pedro
3:00 PM	Analysis of High-mass X-ray Binary LS 5339 at Highest energy with HAWC	HUANG, Dezhi

Gravitational Wave and Multimessenger: II - BioSci 1101 (Aug 11, 2022, 2:00 PM - 3:20 PM)

-Conveners: Weidong Jin

time	title	presenter
2:00 PM	Astrometric Gravitational-Wave Detection via Stellar Interferometry	FEDDERKE, Michael A.
2:20 PM	Searches for IceCube-neutrino counterparts to gravitational wave events	BALAGOPAL V., Aswathi
2:40 PM	Neutrino Emission during Supermassive and stellar mass Binary Black Hole Mergers	JAROSCHEWSKI, Ilja
3:00 PM	Neutrino follow-up with the Zwicky Transient Facility: Results from the first 24 campaigns	STEIN, Robert

Coffee (3:20 PM - 3:50 PM)

Dark Matter: XIII - Chernoff Auditorium (Aug 11, 2022, 3:50 PM - 5:30 PM)

-Conveners: Sara Rebecca Gozzini

time	title	presenter
3:50 PM	Novel Model Independent Constraints on Dark Matter and Cosmic Neutrinos	TSAI, Yu-Dai
4:10 PM	Global fits of s-channel simplified models for dark matter with GAMBIT	CHANG, Christopher
4:30 PM	The semi-visible dark photon	HOSTERT, Matheus
4:50 PM	Searching for inelastic dark matter with future laboratory experiments	TAOSO, Marco
5:10 PM	First dark matter search result from the LZ experiment	ERIKSEN, Sam

Dark Matter: XIV - Stirling Auditorium (Aug 11, 2022, 3:50 PM - 5:10 PM)

-Conveners: Nassim Bozorgnia

time	title	presenter
3:50 PM	Cosmology of Atomic Dark Matter with CLASS	BARRON, Jared
4:10 PM	The General AntiParticle Spectrometer - Search for Dark Matter using Cosmic-ray Antinuclei	VON DOETINCHEM, Philip
4:30 PM	Axion dark matter-induced echo of supernova remnants	SUN, Yitian
4:50 PM	Towards Understanding the Origin of Cosmic-Ray Electrons	VAGELLI, Valerio VAGELLI, Valerio

Galactic Sources: IV - Humphrey Auditorium (Aug 11, 2022, 3:50 PM - 5:10 PM)**-Conveners: Sajan Kumar**

time	title	presenter
3:50 PM	Where are hadronic PeVatrons? – Constraints and Prospects	SUDOH, Takahiro
4:10 PM	TeV neutrinos from dense winds in Novae	BEDNAREK, Wlodek
4:30 PM	Hadronic origin of gamma-ray emission from nova RS Oph revealed by the MAGIC telescopes	SITAREK, Julian
4:50 PM	Detection of very-high-energy gamma rays from RS Ophiuchi by the prototype Large-Sized Telescope for the Cherenkov Telescope Array	KOBAYASHI, Yukiho

Neutrinos: VII - BioSci 1101 (Aug 11, 2022, 3:50 PM - 4:50 PM)**-Conveners: Abigail Vieregg**

time	title	presenter
3:50 PM	Status of the Radar Echo Telescope	PROHIRA, steven
4:10 PM	Direction Reconstruction for the Radar Echo Telescope for Neutrinos (RET-N)	FRIKKEN, Dylan
4:30 PM	Recent progress towards a 5-station neutrino search with ARA	MUZIO, Marco

Particle Physics: I - BioSci 1102 (Aug 11, 2022, 3:50 PM - 4:50 PM)**-Conveners: Javier Fernández Acevedo**

time	title	presenter
3:50 PM	Electromagnetic radiation from axion condensates in a time dependent magnetic field	SIVERTSEN, Lars
4:10 PM	GAMBIT update	BALAZS, Csaba
4:30 PM	Flavor and CP Violation from a QCD-like Hidden Sector	BENSALEM, Wafia

Banquet at Isabel Bader Centre for the Performing Arts (6:30 PM - 8:30 PM)

Friday, August 12, 2022

Plenary session (Aug 12, 2022, 9:00 AM - 10:00 AM)

-Conveners: Arthur McDonald

time	title	presenter
9:00 AM	Counting your dark matter halos	PETER, Annika
9:30 AM	The Universe as a Lab for Dark Matter Physics	DVORKIN, Cora

Coffee (10:00 AM - 10:30 AM)

Plenary session (Aug 12, 2022, 10:30 AM - 12:00 PM)

-Conveners: Katelin Schutz

time	title	presenter
10:30 AM	Cusps, Cores and Kinematics: Modelling Gas in Galaxies to Measure Dark Matter	SPEKKENS, Kristine
11:00 AM	Astroparticle Physics with the Forward Physics Facility at the High-Luminosity LHC	SOLDIN, Dennis
11:30 AM	Pulsar Timing Arrays: The Next Window to Open on the Gravitational-Wave Universe	MINGARELLI, Chiara

Plenary session: Closing remarks (Aug 12, 2022, 12:00 PM - 12:30 PM)

-Conveners: Nahee Park; Joseph Bramante; Aaron Vincent