

TeVPA 2018

Monday 27 August 2018 - Friday 31 August 2018

LVH, Luisenstraße 58, 10117 Berlin

Programme

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Monday 27 August 2018

Dark Matter: 1 - (14:00-15:45)

Chair 1: Louise Oakes | Chair 2: Nathan Kelley-Hoskins | Chair 3: Klaus Eitel | Chair 4: Dan Hooper | Chair 5: Daniele Gaggero | Chair 6: Michele Doro | Chair 7: Mónica Vázquez-Acosta

- Conveners: Prof. Schumann, Marc; Dr. Sánchez-Conde, Miguel; Oakes, Louise

time	title	presenter
14:00	Dark Matter searches with the MAGIC telescopes	VAZQUEZ ACOSTA, Monica
14:20	The VERITAS Dark Matter and Astroparticle Physics Program	KELLEY-HOSKINS, Nathan
14:40	Indirect Dark Matter Searches with the HAWC Observatory	HARDING, Pat
15:00	Robust estimate of dark matter distributions in the Galactic dwarf spheroidals	HAYASHI, Kohei
15:15	Model-independent constraints on dark matter annihilation in dwarf spheroidal galaxies	SANDICK, Pearl
15:30	Refined Dark Matter Spectra for Cherenkov Telescopes	RODD, Nicholas

Dark Matter: 2 - -4- Robert Koch (16:15-18:00)

Chair 1: Louise Oakes | Chair 2: Nathan Kelley-Hoskins | Chair 3: Klaus Eitel | Chair 4: Dan Hooper | Chair 5: Daniele Gaggero | Chair 6: Michele Doro | Chair 7: Mónica Vázquez-Acosta

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time	title	presenter
16:15	Modeling evolution of dark matter substructure and annihilation boost	ANDO, Shin'ichiro
16:30	Reviving the clumpiness boost for dark matter indirect searches	STREF, Martin
16:45	Diffuse axion-like particle searches	LAHA, Ranjan
17:00	Study of axion-like particle effects on the transparency of the universe to gamma rays with the Fermi Large Area Telescope	GALLARDO ROMERO, Galo
17:15	Light in the Dark -- a Light Dark Matter eXperiment (LDMX)	POETTGEN, Ruth
17:30	Cosmological Constraints on Dark Matter Scattering	BODDY, Kimberly
17:45	Development of the GAPS Experiment for Cosmic-ray Antideuteron Search	BIRD, Ralph

Tuesday 28 August 2018

Dark Matter: 3 - -2- B. von Langenbeck (14:00-15:45)

Chair 1: Louise Oakes | Chair 2: Nathan Kelley-Hoskins | Chair 3: Klaus Eitel | Chair 4: Dan Hooper | Chair 5: Daniele Gaggero | Chair 6: Michele Doro | Chair 7: Mónica Vázquez-Acosta

- Conveners: Prof. Schumann, Marc; Dr. Sánchez-Conde, Miguel; Oakes, Louise

time	title	presenter
14:00	Direct Dark Matter Detection with XENON1T	WULF, Julien
14:20	Dark Matter implications of DAMA/LIBRA-phase2 results	BAUM, Sebastian
14:40	Direct search for light dark matter with the CRESST-III experiment	GORLA, Paolo
15:00	Probing the correlation between stellar and dark matter velocity distributions	BOZORGNIA, Nassim
15:15	DANAE - a new experiment for direct dark matter detection with DEPFET silicon detectors	SCHIECK, Jochen
15:30	Consequences of a XENONnT/LZ signal for the LHC and thermal dark matter production	KRAUSS, Martin

Wednesday 29 August 2018

Dark Matter: 4 - -2- B. von Langenbeck (16:15-18:00)

Chair 1: Louise Oakes | Chair 2: Nathan Kelley-Hoskins | Chair 3: Klaus Eitel | Chair 4: Dan Hooper | Chair 5: Daniele Gaggero | Chair 6: Michele Doro | Chair 7: Mónica Vázquez-Acosta

- Conveners: Prof. Schumann, Marc; Dr. Sánchez-Conde, Miguel; Oakes, Louise

time	title	presenter
16:15	Update on the EDELWEISS Dark Matter Search	EITEL, Klaus
16:30	Novel light dark matter signals in xenon direct detection experiments	MCCABE, Christopher
16:45	Latest results of LUX dark matter experiment	LOPES, M. I.
17:00	Bracketing the impact of astrophysical uncertainties on dark matter searches	RAPPELT, Andreas
17:15	Dark matter searches with LUX-ZEPLIN (LZ)	TOMAS ALQUEZAR, Alfredo
17:30	Simple self-consistent prediction methods for the phase space of dark matter: from galactic dynamics to phenomenology	LACROIX, Thomas
17:45	DarkSUSY 6: More than SUSY Dark Matter	BRINGMANN, Torsten

Thursday 30 August 2018

Dark Matter: 5 - -1- Lecture hall (14:00-15:45)

Chair 1: Louise Oakes | Chair 2: Nathan Kelley-Hoskins | Chair 3: Klaus Eitel | Chair 4: Dan Hooper | Chair 5: Daniele Gaggero | Chair 6: Michele Doro | Chair 7: Mónica Vázquez-Acosta

- Conveners: Prof. Schumann, Marc; Dr. Sánchez-Conde, Miguel; Oakes, Louise

time	title	presenter
14:00	Status of Dark mater searches with IceCube	DE LOS HEROS, Carlos
14:20	Latest results on dark matter searches using the H.E.S.S. telescopes	POIREAU, Vincent
14:40	On the verge of the next generation TeV dark matter searches	DORO, Michele
15:00	Unassociated Gamma-ray Sources as Targets for Indirect DM Detection with Fermi-LAT	CORONADO-BLÁZQUEZ, Javier
15:15	Searching for Dark Matter Annihilation in the Milky Way Halo at High Latitudes	CHANG, Laura
15:30	Probing the sensitivity of the Cherenkov Telescope Array to Dark Matter in the Galactic Center	ECKNER, Christopher

Dark Matter: 6 - -1- Lecture hall (16:15-18:15)

Chair 1: Louise Oakes | Chair 2: Nathan Kelley-Hoskins | Chair 3: Klaus Eitel | Chair 4: Dan Hooper | Chair 5: Daniele Gaggero | Chair 6: Michele Doro | Chair 7: Mónica Vázquez-Acosta

- Conveners: Prof. Schumann, Marc; Dr. Sánchez-Conde, Miguel; Oakes, Louise

time	title	presenter
16:20	Testing simple dark matter phase-space prediction methods on cosmological hydro-dynamical simulations of Milky-Way-like galaxies	NUNEZ-CASTINEYRA, Arturo
16:35	Distinguishing between warm and cold dark matter using gaps in stellar streams	BANIK, Nilanjan
16:50	Gravitational waves from spin-1 Dark Matter	GARCIA CELY, Camilo Alfredo
17:05	A strong bound on the dark matter fraction in primordial black holes from astronomical data.	GAGGERO, Daniele
17:35	Constraints on Dark Matter Annihilation and Decay from CALET Data	MOTZ, Holger
17:50	Prospects to find dark matter with cosmic-ray antiprotons and antideuterons	KORSMEIER, Michael

Friday 31 August 2018

Dark Matter: 7 - -4- Robert Koch (14:00-15:45)

Chair 1: Louise Oakes | Chair 2: Nathan Kelley-Hoskins | Chair 3: Klaus Eitel | Chair 4: Dan Hooper | Chair 5: Daniele Gaggero | Chair 6: Michele Doro | Chair 7: Mónica Vázquez-Acosta

- Conveners: Prof. Schumann, Marc; Dr. Sánchez-Conde, Miguel; Oakes, Louise

time	title	presenter
14:00	Dark Matter search with the Fermi Large Area Telescope	ZAHARIJAS, Gabrijela
14:20	Evidence Against a Dark Matter Explanation of the Galactic Center Excess	CROCKER, Roland
14:40	Studying Dark Matter properties with the CMB	POULIN, Vivian
15:00	The Status of Interpretations of the Galactic Center Excess	HOOPER, Dan
15:15	The low-energy excess at ANTARES and IceCube Neutrino Telescopes: a potential Dark Matter signature	CHIANESE, Marco
15:30	p-wave annihilating dark matter and the EDGES 21-cm signal	RIDGWAY, Gregory