

PHYSTAT Dark Matter 2019

Wednesday 31 July 2019

General: Preamble and Intro to Statistics (09:30 - 11:00)

-Conveners: Jan Conrad

time	[id] title	presenter
09:30	[42] Introductory Statistics Talks	COWAN, Glen LYONS, Louis

General: Intro to Workshop (11:30 - 12:40)

-Conveners: Hugh Lippincott

time	[id] title	presenter
11:30	[53] Intro to workshop	CONRAD, Jan
11:40	[30] Status of direct detection experiments and their approaches to statistical inference	Dr DOBSON, Jim
12:10	[35] Including direct detection likelihoods in global fits	KAHLHOEFER, Felix

General: Blind Analysis, Look Elsewhere (14:30 - 16:00)

-Conveners: Tina Pollmann

time	[id] title	presenter
14:30	[26] Blinding and salting in dark matter searches.	MONZANI, Maria Elena
15:00	[28] Blinding Strategies for Dark Matter Searches	Dr LOER, Ben
15:30	[37] Correcting for the look-elsewhere effect: why, when and how	Dr ALGERI, Sara

General: Experience Outside Dark Matter, and Limits (16:30 - 18:00)

-Conveners: Jim Dobson

time	[id] title	presenter
16:30	[34] The LHC Experience	WARDLE, Nicholas
17:00	[45] Statistical Inference in Double-Beta Decay Searches	AGOSTINI, Matteo
17:30	[44] Limit setting: evolution vs. intelligent design	Dr LANDSMANN, Hagar

Thursday 1 August 2019

General: Limit Setting Methods (09:00 - 10:30)

-Conveners: Ben Loer; Ben Loer

time	[id] title	presenter
09:00	[48] Likelihood asymptotics and beyond	BRAZZALE, Alessandra
09:30	[33] Improved Inference for the Signal Significance	VOLOBOUEV, Igor
10:00	[43] Imposing overcoverage on small signals.	Dr MORÅ, Knut Dundas

General: Signal and Backgrounds (11:00 - 12:00)

-Conveners: Olaf Behnke

time	[id] title	presenter
11:00	[24] Detecting new signals under background mismodelling	Dr ALGERI, Sara
11:30	[46] Partially specified models and nuisance parameters	Dr BATTEY, Heather

General: Signal and Backgrounds (14:00 - 15:30)

-Conveners: maria monzani; Maria Elena Monzani

time	[id] title	presenter
14:00	[36] Crystal-based Detector Background and Response Modeling	CALKINS, Robert
14:30	[40] Background and detector response modeling in single electron-hole pair sensitive crystal detectors	VON KROSIGK, Belina
15:00	[51] A statistical model for the leakage of backgrounds mitigated by pulshape discrimination methods	POLLMANN, Tina

General: Backgrounds/Response Modeling (16:00 - 16:30)

-Conveners: Jelle Aalbers; Jelle Aalbers

time	[id] title	presenter
16:00	[39] A novel approach to assess the impact of the Fano factor on the sensitivity of low-mass dark matter experiments	Mr DURNFORD, Daniel

Friday 2 August 2019

General: Nuisance Parameters (Form Factors/Halo) (09:00 - 10:15)

-Conveners: Luca Grandi

time	[id] title	presenter
09:00	[25] Nuclear physics of dark matter direct detection	HOFERICHTER, MARTIN
09:35	[5] Dark matter in the Milky Way	Dr MCCABE, Christopher

General: Machine Learning (11:00 - 12:00)

-Conveners: Hagar Landsmann

time	[id] title	presenter
11:00	[47] Machine learning in HEP	KIESELER, Jan
11:30	[52] Dark Machines - using machine learning to solve dark matter related problems	HENDRIKS, Luc HENDRIKS, Luc

General: Summaries (15:40 - 16:40)

-Conveners: Jan Conrad

time	[id] title	presenter
15:40	[49] Statisticians summary	BRAZZALE, Alessandra
16:10	[50] Physicists Summary	LIPPINCOTT, Hugh