

Table of contents

Wednesday 10 April 2019	1
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Advanced Workshop on Accelerating the Search for Dark Matter with Machine Learning | (smr 3280)

Wednesday 10 April 2019

**Wednesday, 10 April 2019 - GRAVITATIONAL LENSING - Adriatico Guest House - Kastler
Lecture Hall (09:00-19:10)**

time	title	presenter
09:00	Overview of the LSST DM program	JOHANN COHEN-TANUGI
09:45	Deep Generative Models: Foundations, applications and open problems (Video Call)	DANILO J. REZENDE
10:30	Coffee Break	
11:00	DM and gravitational lensing	SIMONA VEGETTI
11:45	Strong Gravitational Lensing and ML: Methodology	ADAM COOGAN
12:00	Strong Gravitational Lensing Systems with Machine Learning: first results on Dark Matter substructures	MARCO CHIANESE
12:15	Lunch Break	
14:00	Determining the dark matter clumps parameters from strong gravitational microlensing events	OLENA FEDOROVA
14:15	Search for dark substructure in Gaia stellar field using CNN	MIHAEL PETAC
14:30	Using machine learning to unlock Gaia's full potential to determine the dark matter halo	BRYAN OSTDIEK
15:00	EHT Press Conference	
16:00	Coffee Break	
16:30	Gaussian processes and deep learning (Video Call)	JAEHOON LEE
17:15	Brainstorming + Status of challenges	
18:00	Work in groups (TBC)	