DeepLearning 3D workshop, Lyon, Nov 14-15 2024

Thursday Nov 14th

12:30	Arrival

- Lunch (Buffet) - Condorcet

Chair	Julian Tachella	
14:00-14:10	Welcome	Nicolas
14:10-14:30	Open issues in Bio	Olivier Cochet-Escartin (ILM)
14:30-14:45	Deep learning denoising of molecular line cubes by dimension reduction	Lucas Einig (IRAM)
14:45-15:25	**LIBS hyper/mega spectral imaging with AI: an strong analytical potential!**	Vincent Motto-Ros (ILM)

- coffee break -

Chair	Nelly Pustelnik	
15:45-16:00	Open issues in astrophysical 3D data	Nicolas Bouché (CRAL)
16:00-16:15	Classifying ionised nebulae with neural networks: a test on M33 MUSE spectra	Caterina Bracci (Florence)
16:15-16:30	Supervised ML fo classification of MUSE spectra	Masten Bourahma (CRAL)
16:30-17:10	**Unsupervised learning**	Thomas Oberlin (ISAE)
17:10-17:45	Discussions	

Friday Nov 15th

Chair	Olivier Cochet-Escartin	
09:30-10:10	3D Deep Learning in Physics	Julian T. / Nelly P. (LPENSL)
10:10-10:50	**Recent low-rank models and unmixing methods for exoplanets detection in angular and spectral differential imaging**	Laurent Jacques (UCLouvain)

- coffee break -

Chair	Olivier Cochet-Escartin	
11:15-11:30	Spatially and spectrally resolved X-ray astrophysics using simulation-based inference	Didier Barret (IRAP)
11:30-11:45	**Locally-Rank-One-Based Joint Unmixing and Demosaicing Methods for Snapshot Spectral Images**	Abbas, Kinan (ENS)
11:45-12:15	**Galaxy detection with deep learning in radio data**	David Cornu (LERMA)

- lunch break - La Brasserie

Chair	Nicolas Bouché	
14:00-14:40	**Hadamard spectral imaging**	Nicolas Ducros (INSA)
14:40-14:55	Unsupervised classification of spaxels in astronomy	Hugo Chambon (IPAG)
14:55-15:35	Discussions	

- coffee break -

16:00	End