

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

Thursday Nov 14th

12:30	Arrival (room Condorcet Pl de L italie)
13:00-14:00	Lunch (Restaurant ENS Crous)

- Lunch -

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	<b>LIBS hyper/mega spectral imaging with AI: an strong analytical potential!</b>	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	<b>Unsupervised learning</b>	<a href="#">Thomas Oberlin</a> (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	<b>Recent low-rank models and unmixing methods for exoplanets detection in angular and spectral differential imaging</b>	<a href="#">Laurent Jacques</a> (UCLouvain)

- coffee break -

Chair	Olivier Cochet-Escartin	
11:15-11:30	Spatially and spectrally resolved X-ray astrophysics using simulation-based inference	Dupourqué Simon (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	<b>Galaxy detection with deep learning in radio data</b>	<a href="#">David Cornu</a> (LERMA)
12:15-12:35	<b>Hyperspectrale fusion for X ray astrophysics</b>	Julia Lascar (CEA)

- lunch break - La Brasserie

Chair	Nicolas Bouché	
14:00-14:40	<b>Hadamard spectral imaging</b>	<a href="#">Nicolas Ducros</a> (INSA)
14:40-14:55	Unsupervised classification of spaxels in astronomy	Hugo Chambon (IPAG)
14:55-15:35	Discussions	

- coffee break -

16:00	End
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