

LOW SURFACE BRIGHTNESS GALAXIES IN THE SKA ERA

Thursday 1st December

Morning : salle Denisse ([map](#))

Opening		
09h00-09h30	SKA and LSB Science	Françoise Combes

The low surface brightness sky		
09h30-10h00	Complementary optical/near-IR LSB observatories : CFHT-MegaCam & Euclid	Jean-Charles Cuillandre
10h00-10h30	Galactic cirrus in the optical-NIR : a new view on the interstellar medium	Marc-Antoine Miville-Deschenes

– coffee break –

11h00-11h30	Deep learning tools for detecting and segmenting galactic structures and contaminants in LSB images	Adeline Paiement
11h30-12h00	Low surface brightness dwarf galaxies in the era of deep imaging surveys	Francine Marleau
12h00-12h30	The Hydra I cluster of galaxies as seen in the low-surface brightness regime	Enrichetta Iodice

– lunch break –

Afternoon : salle Bat B RdC ([map](#))

Gas in LSBs and UDGs		
14h00-14h30	An HI view of the MATLAS dwarf galaxies	Mélina Poulain
14h30-15h00	Connecting the diffuse gas and the LSB stellar structures around nearby galaxies: an accretion / ejection story	Pierre-Alain Duc
15h00-15h30	Probing ISM conditions for star formation in LSB environments - Insights from molecular clouds in the XUV disk of M83	Jin Koda

– coffee break –

16h00-16h30	Giant gas-rich low surface brightness galaxies in the SKA era	Samuel Boissier
16h30-17h00	Predictions on the gas content of ultra-diffuse galaxies in the Virgo cluster	Junais
17h00-17h30	Extending the realm of galaxies to the low-surface-brightness Universe	Brisa Mancillas

17h30-19h00	Room available for discussions and interactions
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– dinner at the brasserie Bullier –

Friday 2nd December

Morning : salle Bat B 2e étage ([map](#))

09h00-12h30	Room available for discussions and interactions. IAP colloquium at 11:00 (coffee at 10:30 at the IAP).
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– lunch break –

Afternoon : salle Danjon ([map](#))

LSBs/UDGs: Theory and simulations		
14h00-14h30	Missing, too-many, dark matter-free, or planes-of dwarf satellites... The many probes of cosmology through the LSB universe	Oliver Müller
14h30-15h00	SKA and the formation channels of UDGs	Jeremy Fensch
15h00-15h30	Ultra-diffuse galaxies as a testing ground for LCDM and MOND	Jonathan Freundlich

– coffee break –

16h00-16h30	Simulating faint galaxies with GEAR : where do we stand ?	Yves Revaz
16h30-17h00	Behavior of globular clusters in LSB galaxies under MOND gravity	Michal Bilek

17h00-17h30	Final discussion
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