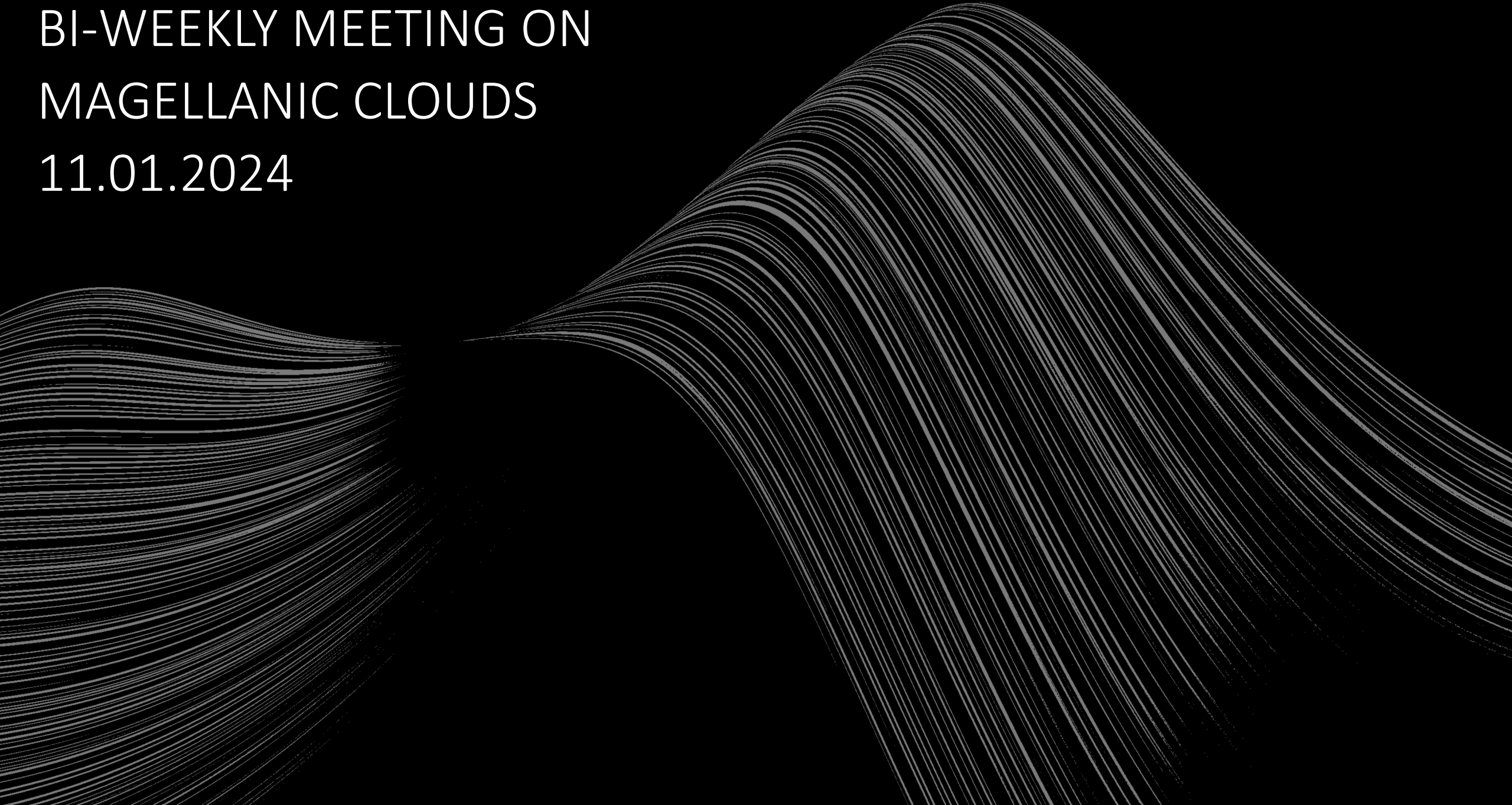


BI-WEEKLY MEETING ON
MAGELLANIC CLOUDS
11.01.2024



Catalogue

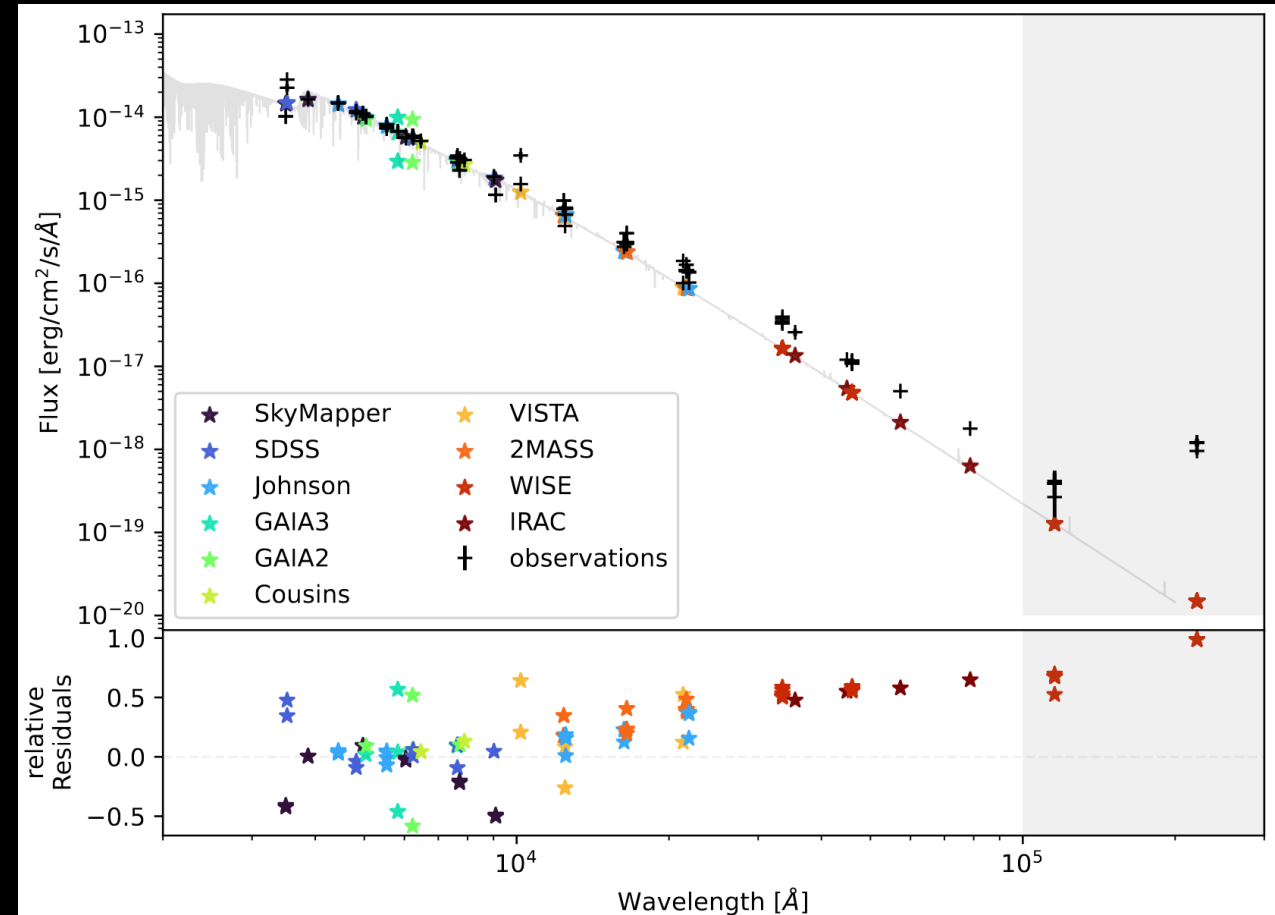
- Set of known HMXB to select colour and magnitude cuts
 - Slightly adjusted MCPS cut to update the selection to same set as VMC
- AGN catalogues:
 - Now only use catalogues with secure AGN (previously some AGN catalogues)
 - Updated to larger circle (MCPS did not reach out to very edge)
 - AGN candidate catalogues for flags
- Groups of candidates:
 - Both catalogues
 - Outside selection in one
 - No counterpart in one
 - (outside of MCPS circle)

Catalogue – Results

- All new HMXB candidates inside of region of MCPS (all VMC matches outside sorted out as secure AGN)
- Total of 9 new objects
 - 4 in both (1 good, 3 questionable , 2 might still fall out due to X-ray spectrum)
 - 3 outside MCPS selection (all with correct colours but slightly too faint, 2 good, 1 match with Kozłowski+2009, 1 match with Pennock+2021)
 - 1 outside VMC selection (questionable, match with Pennock+2021)
 - 1 without VMC counterpart (close-by VMC counterpart but Gaia confirms 2 objects); match with Kozłowski+2009

SED Fitting – Julia Bodensteiner

- For all candidates as additional check of Be/SG nature
- Fit SED found from different catalogues on Vizier to stellar spectral model
- Check if LMC O/B star fits and check for IR excess



eRASSU J050810.4-660653 1" SED