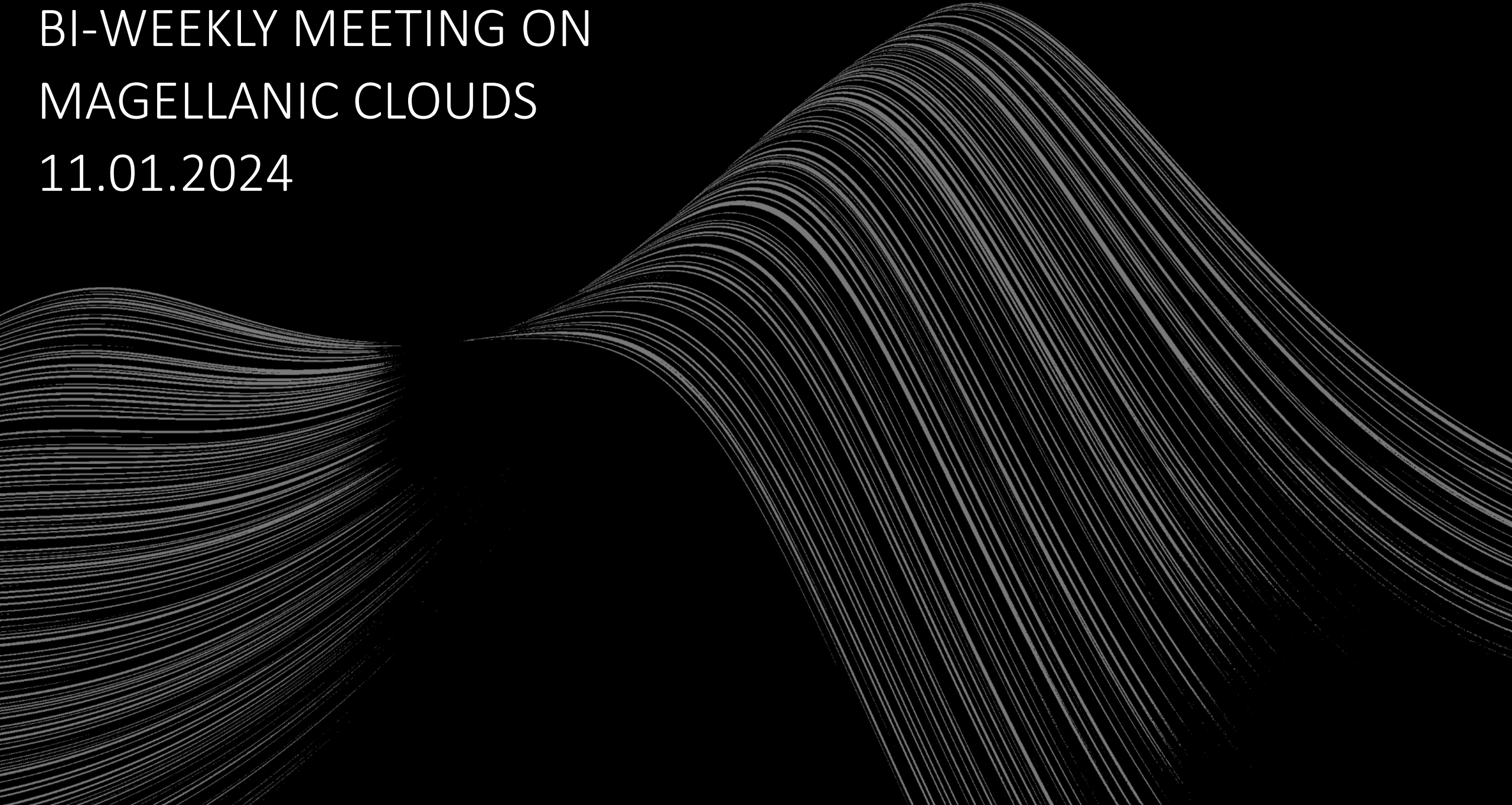


BI-WEEKLY MEETING ON  
MAGELLANIC CLOUDS  
11.01.2024



# Catalogue

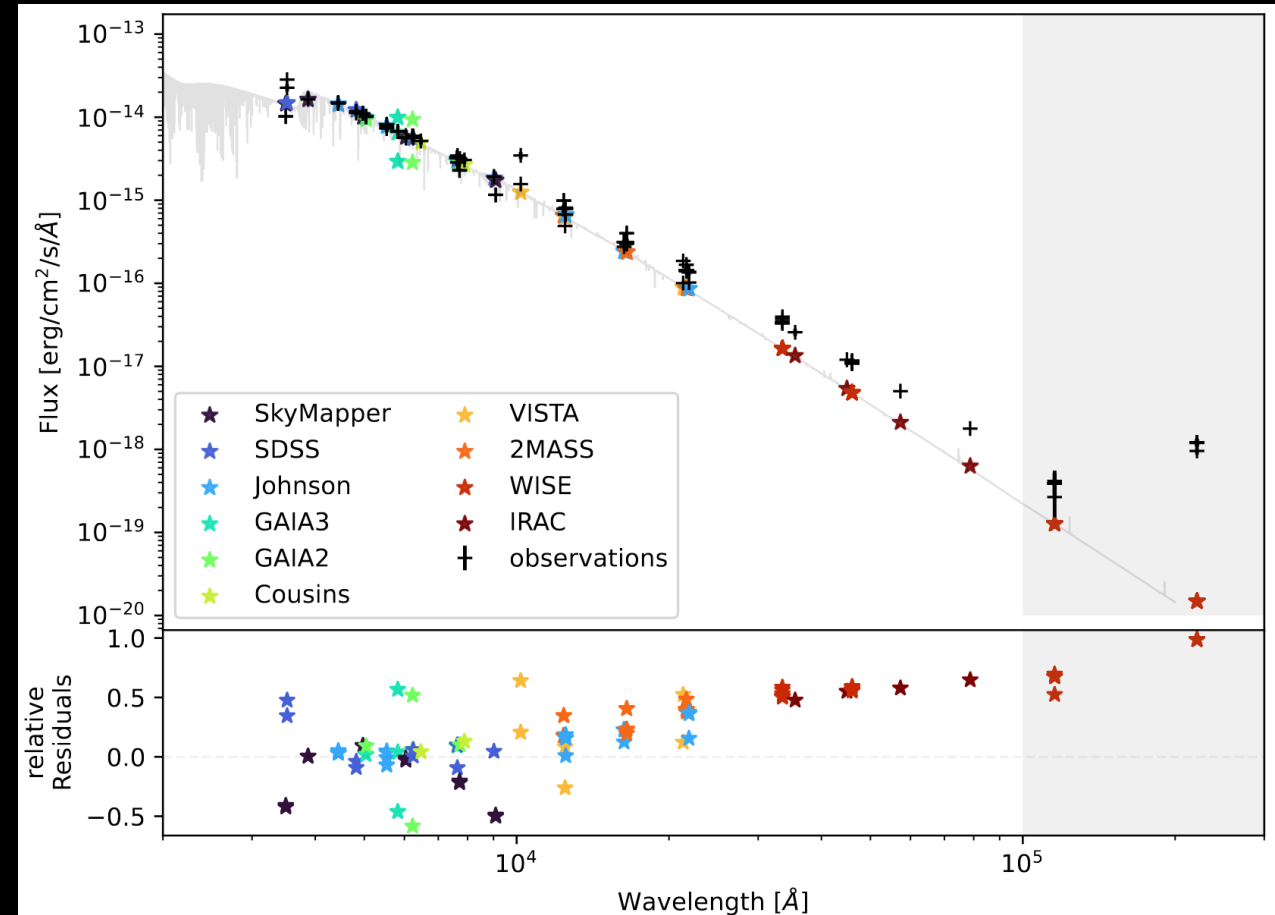
- Set of known HMXB to select colour and magnitude cuts
  - Slightly adjusted MCPS cut to update the selection to same set as VMC
- AGN catalogues:
  - Now only use catalogues with secure AGN (previously some AGN catalogues)
  - Updated to larger circle (MCPS did not reach out to very edge)
  - AGN candidate 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 X 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 Kozlowski+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 Kozlowski+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*