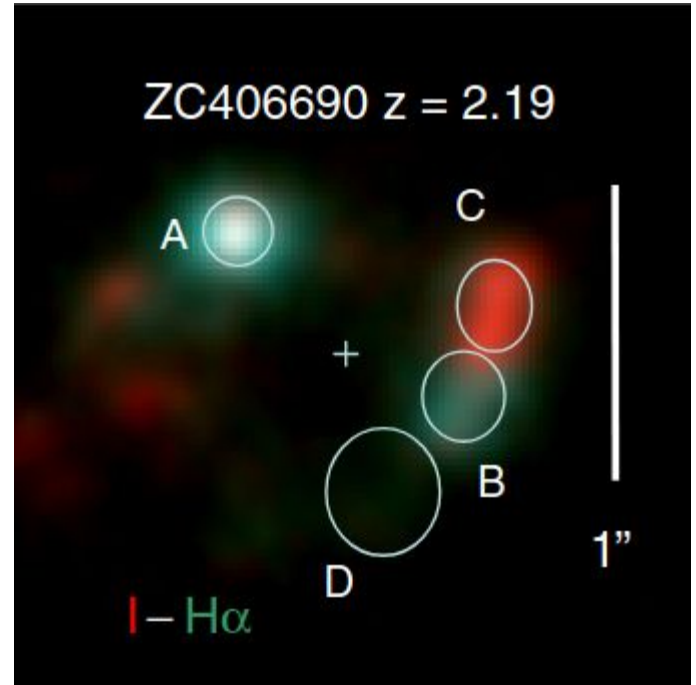


2024 publications (@ CAMK since Nov 2024):

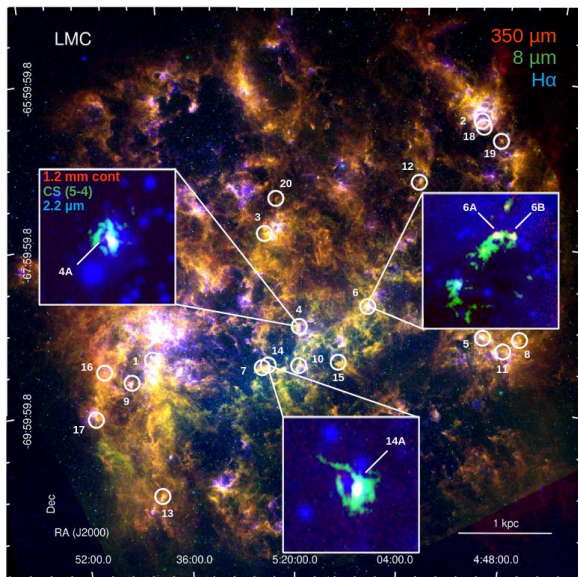
- Richtler, Salinas et al. “The isolated elliptical galaxy NGC 5812 – MOND or dark matter?”, AN 345, 230081
- Sestito et al. “GHOST commissioning science results - II: a very metal-poor star witnessing the early galactic assembly”, MNRAS 528, 4838
- Berg et al. “GHOST commissioning science results - III. Characterizing an iron-poor damped Lyman α system”, MNRAS, 531, 3815
- Kalari et al. “Gemini High-resolution Optical Spectrograph (GHOST) at Gemini South: Instrument Performance and Integration, First Science, and Next Steps”, AJ, 168, 208
- Bazinet et al. “A Subsolar Metallicity on the Ultra-short-period Planet HIP 65Ab”, AJ, 167, 206
- Kalari, Salinas et al. “A High-resolution Imaging Survey of Massive Young Stellar Objects in the Magellanic Clouds”, ApJ, 972, 3
- Schroeder et al. “The Long-lived Broadband Afterglow of Short Gamma-Ray Burst 231117A and the Growing Radio-Detected Short GRB Population”, ApJ accepted
- Mura-Guzmán et al. “Fluorine abundances in CEMP stars at the lowest metallicity: Hints on the nature of the first stars” MNRAS submitted
- Kalari, Salinas et al. “Discovery of metal-poor and distant pre-main sequence candidates in WLM with JWST”, ★ ApJL ★ re-submitted



How is SF different at low metallicities?

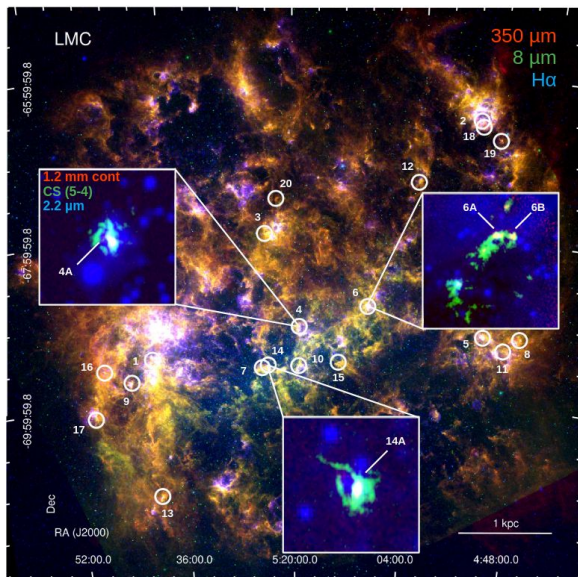
- Reduced cooling → bigger fragments → larger masses (e.g. Sharda & Krumholz 2022)
- Weaker stellar winds → more efficient SF (e.g. Vink 2018)
- Low CO abundance → in small, clumpy clusters (Archer+2024)
- Lower dust-to-gas ratio → efficient UV photoevaporation → reduced disc masses (de Marchi+2011)

$[\text{Fe}/\text{H}] = -0.3$



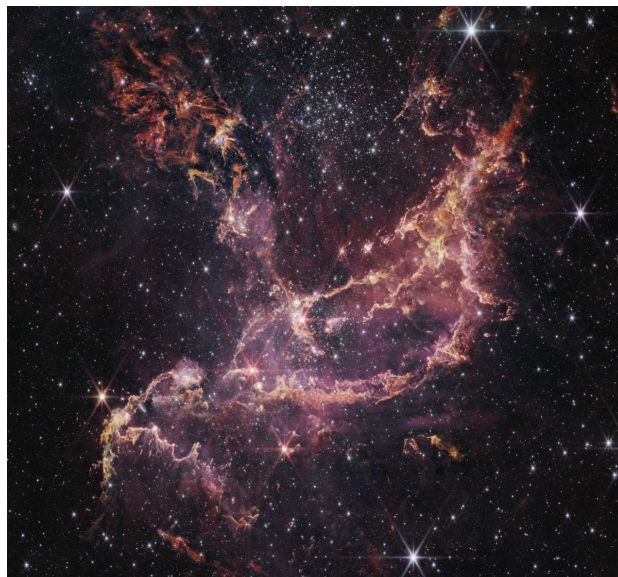
LMC - 50 kpc
(Golshan+2024)

$[\text{Fe}/\text{H}]=-0.3$



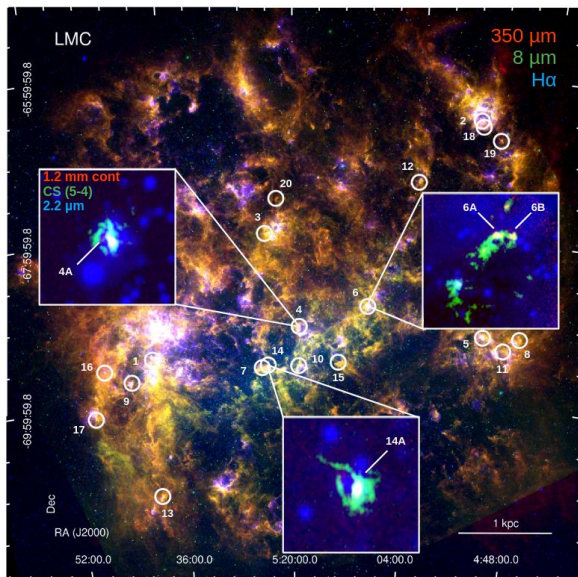
LMC - 50 kpc
(Golshan+2024)

$[\text{Fe}/\text{H}]=-0.45$



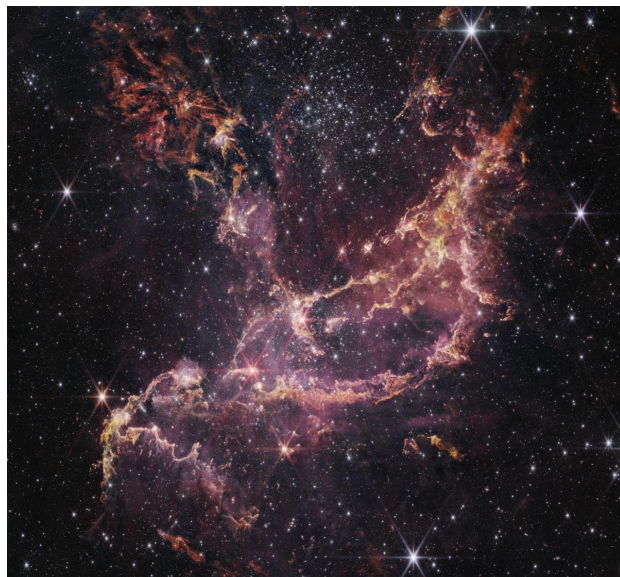
SMC - 60 kpc
(Jones+2023)

$[\text{Fe}/\text{H}]=-0.3$



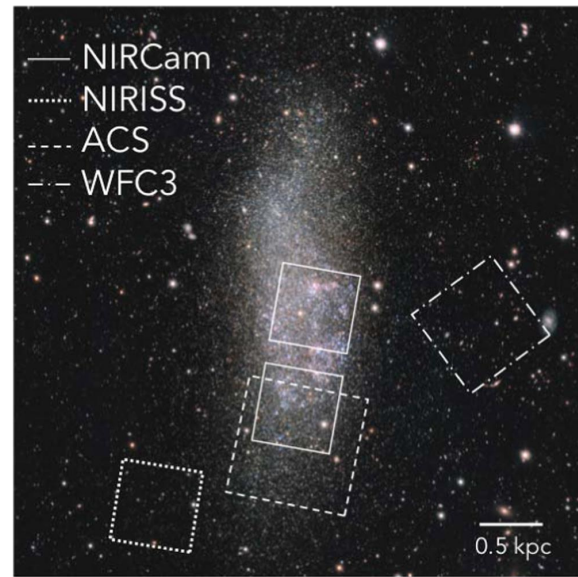
LMC - 50 kpc
(Golshan+2024)

$[\text{Fe}/\text{H}]=-0.45$



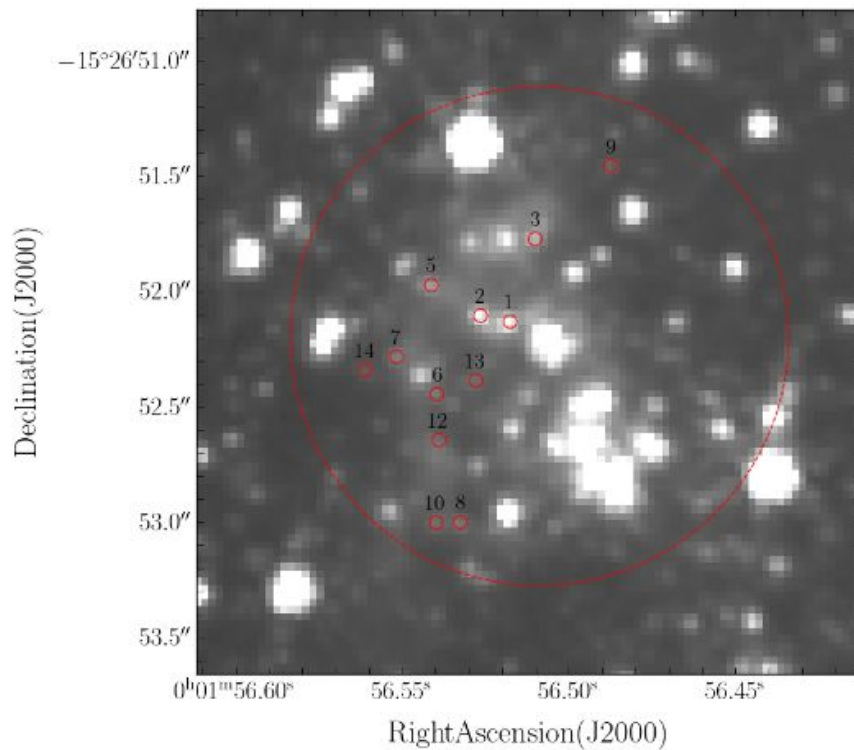
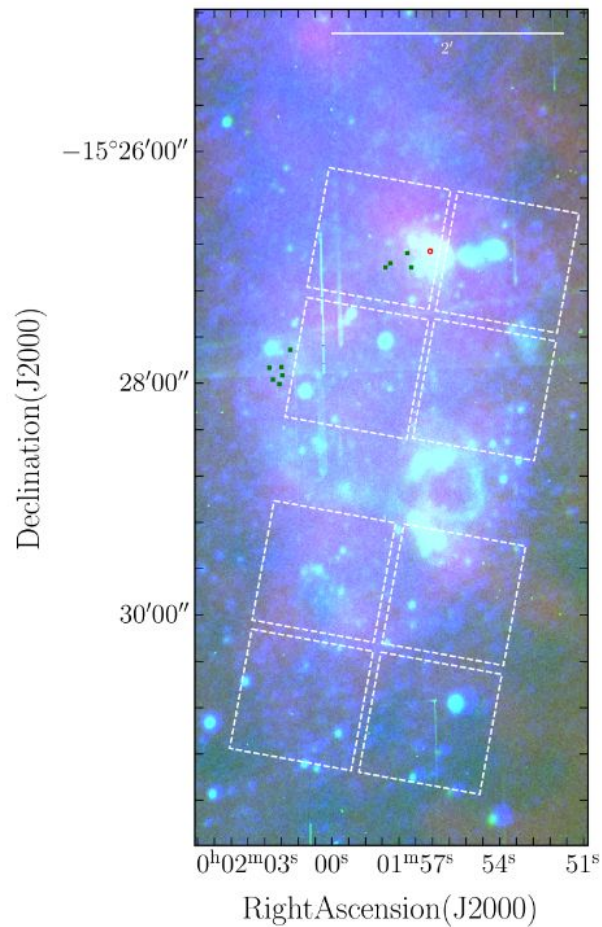
SMC - 60 kpc
(Jones+2023)

$[\text{Fe}/\text{H}]=-0.90$



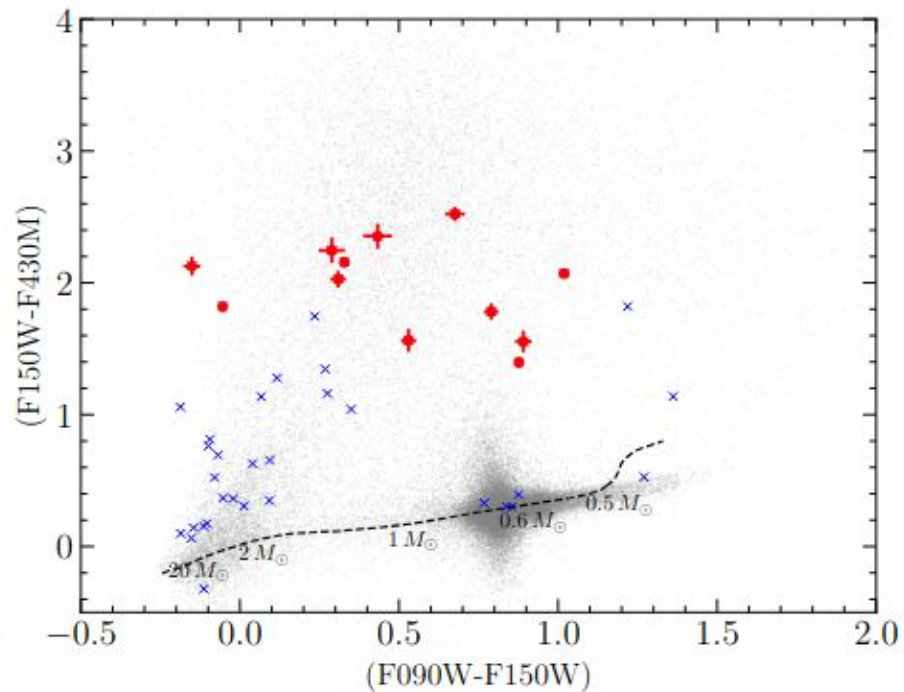
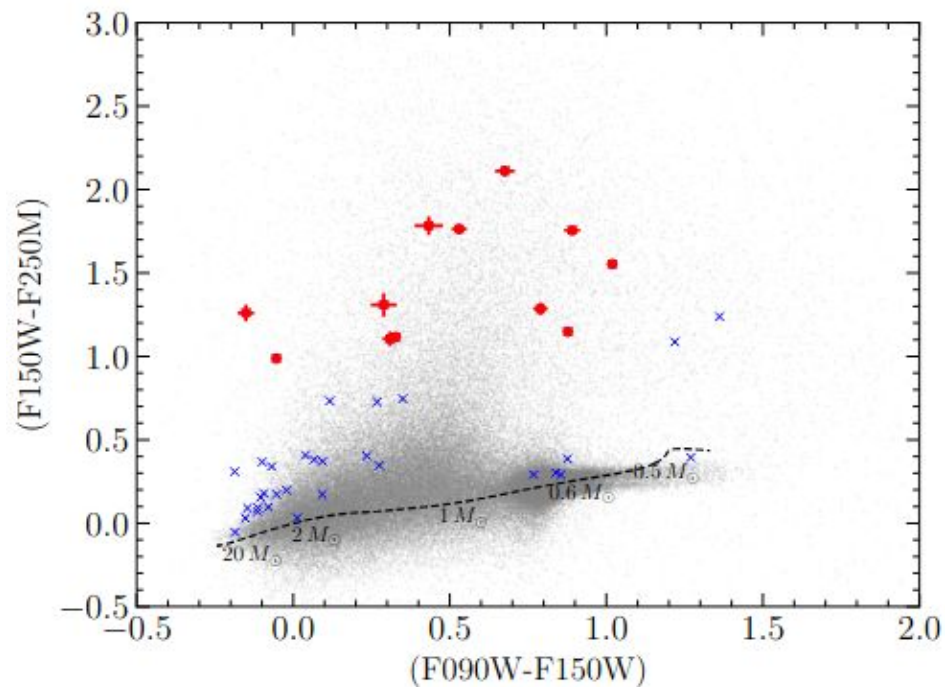
WLM - 968 kpc
(McQuinn+2024)

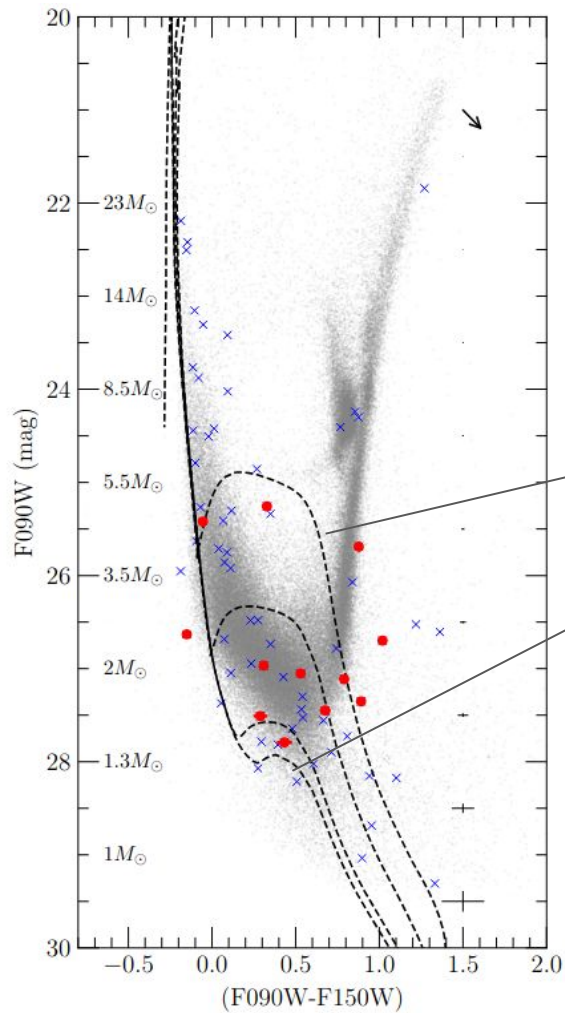
Identifying pre-MS stars in WLM



Identifying pre-MS stars in WLM

JWST/NIRCAM: F090W, F150W, F250M, and F430M photometry (Weisz+2023)





1 Myr

10 Myr

The most distant and metal-poor
PMS stars known