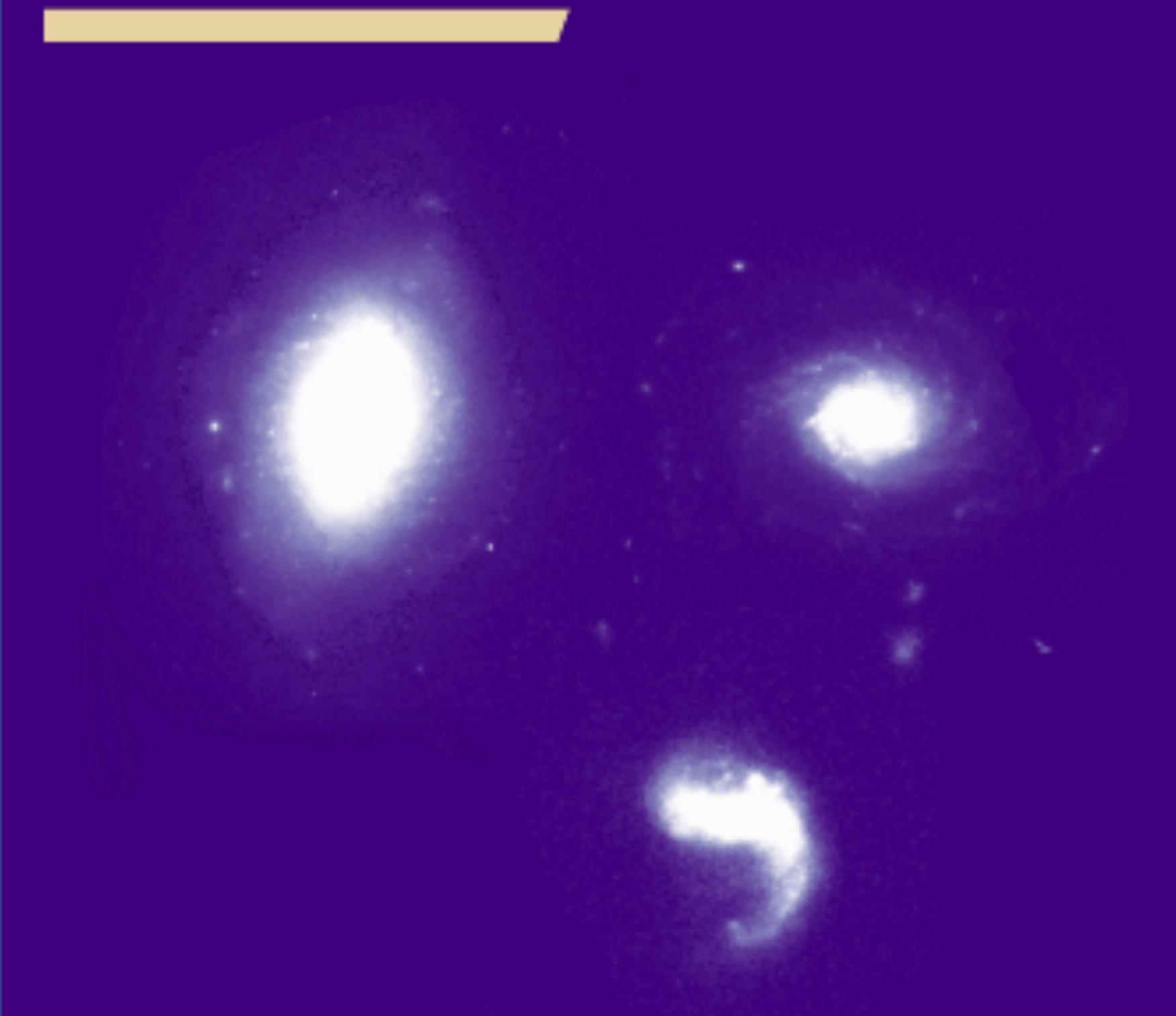


THE GAS CONTENT OF LUMINOUS COMPACT BLUE GALAXIES IN THE COSMOS FIELD



HST/ACS images of three LCBGs

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THE DATA:

- > This project utilized data from the COSMOS HI Large Extragalactic Survey (CHILES) as well as the CHILES Continuum/Polarization Survey (CHILES Con Pol).

THE AIM:

- > Luminous Compact Blue galaxies (LCBGs) are a subset of starburst galaxies that evolve very rapidly.
- > The aim is to search for LCBG detections and study their HI properties to better understand the nature of these objects as they evolve to the present day.

THE PROGRESS:

- > Looked for direct detection of LCBGs in CHILES.
- > Done experiments with HI spectrum stacking as well as continuum stacking.
- > Measured their average HI masses.
- > Measured their SFRs.
- > Measured their gas depletion timescales.

HI density map of one of the detected LCBGs.

