

## LITTLE THINGS and LARI

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### LITTLE THINGS

We have assembled a multi-wavelength dataset on 41 relatively normal, nearby, gas-rich dwarf irregular galaxies for the purpose of determining what drives the formation of new stars in these systems. This project is called LITTLE THINGS (Local Irregulars That Trace Luminosity Extremes, The HI Nearby Galaxy Survey). As part of this project, we have enlisted the help of amateur astronomers to obtain deep optical images of these galaxies over a large field of view. The purpose is to determine if there are any companion galaxies that our galaxies are interacting with. This is part of the Lowell Amateur Research Initiative (LARI) that partners amateurs and professional astronomers in collaborative research projects. Here we show a few of the images that have been taken so far. No unknown companions have been revealed yet.



Images by Wong use a Meade 14" LX200R telescope. Exposure times range from 11 to 34 hours. The field of view is 0.4 degree by 0.6 degree.

Images by Leshin use a RCOS f9 14.5" telescope. Exposure times range from 36 to 45 hours. The field of view is 0.6 degree by 0.75 degree.



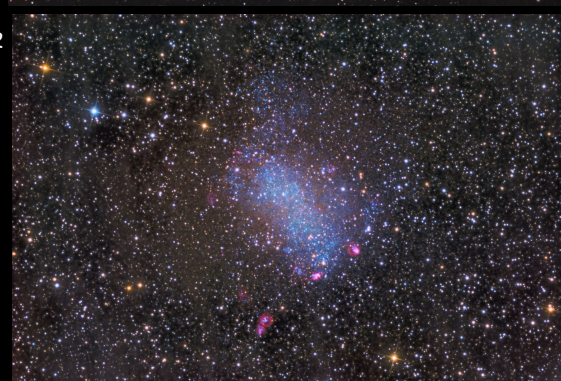
DDO 50

WLM



DDO 70

NGC 6822



IC 1613

DDO 187



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