

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 30 Hours

Proposal Title: Confirmation of Low Mass Systems in the NGC 628 Galaxy Group

ABSTRACT:

Recent surveys suggest that at the lowest HI masses ($< 10^8 M_{\odot}$) there may be a large population of (sub-)dwarf galaxies with very low optical luminosity and surface brightness. We have carried out a deep, survey covering about 1 Mpc^2 centered on NGC 628 with the upgraded Westerbork array. We request observing time to obtain confirming data for 41 uncataloged, tentative detections of low mass galaxies (M_{HI} between a few times 10^6 and a few times $10^7 M_{\odot}$) in this group. Only one of these sources has a clear optical counterpart, three have faint wisps and the remaining 37 have no obvious optical emission down to the POSS limiting surface brightness.

Name	Institution	E-mail	Phone	Student
Robert Braun	NFRA	rbraun@nfra.nl	31-521-595254	no

I NA want to do remote observing.

Instrument Setup

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations**Frequency Ranges Planned**