

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: globular clusters
 Total Time Requested: 51 Hours

Proposal Title: H I and OH in galactic globular clusters

ABSTRACT:

The intra-cluster medium of globular clusters is continuously replenished with mass lost by red giant stars in these clusters. This mass is then stripped from the cluster and mixed with the interstellar medium of the parent galaxy as a result of ram pressure as the cluster crosses the galactic plane. Previous searches for this intra-cluster medium have had very limited success. We here propose to undertake the most sensitive ever survey for H I (at 21 cm) and OH (at 18 cm) gas within a sample of 11 galactic globular clusters, in order to better constrain the production and retention of the intra-cluster medium.

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Service Observing Request

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

Remote Observing Request

- No
- Maybe
- Yes

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1417-1423
1609-1615
1663-1669
1717-1723

This proposal requires Iridium RFI protection at 1612 MHz between 10pm and 6am EST.