This proposal has not been submitted before.

Proposal Type: Regular
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Extragalactic
Total Time Requested: 14 Hours
Minimum Useful Time: 1 hour

Proposal Title: A pilot survey on OH megamaser in one WISE-AGN sample

ABSTRACT:
Luminous quasars may host OH megamasers, either because there is intensive starburst, too, or they may excite OHM in mechanism different from known OHMs in starburst galaxies. We propose to perform a pilot survey on OH megamasers toward one highly representative AGN sample. The pilot sample is taken from a WISE-quasar sample, which is produced from cross-matching the newly released WISE catalog with an SDSS DR7 quasar catalog and taking WISE color and luminosity criteria. This would open up possibly a new avenue to search for OH megamaser sources, namely WISE color selected AGNs. They could shed lights into the environment of OH megamaser production. In addition, our proposed study will also accumulate relevant experience for future OHM surveys, in particular, those to be carried out with FAST.

<table>
<thead>
<tr>
<th>Name</th>
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Remote Observing Request

- [X] Observer will travel to AO
- [ ] Remote Observing
- [ ] In Absentia (instructions to operator)

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none
RFI Considerations

Frequency Ranges Planned