**Technical Page**

Proposal Type: Regular  
General Category: Astronomy  
Sub-Category: Continuum  
Observation Category: Extragalactic  
Total Time Requested: 35 Hours  
Minimum Useful Time: 2 hrs  

**Proposal Title:** Imaging Diffuse Intergalactic 430-MHz Emission in the Perseus-Pisces Supercluster  

**ABSTRACT:**  
We request to extend, at 430 MHz, the 8 degrees x 8 degrees map we observed in the Perseus-Pisces (P-P) supercluster (project A2125), in a zone where Galaxy redshift data show 2 or more intersecting LSS filaments. Our original 8 degrees x 8 degrees map revealed large-scale structures, which are not fully covered by our original observations. The same extension around our original map will be imaged by us with the DRAO interferometer, where nighttime observations have been planned for this fall. The AO and DRAO data will be combined to remove confusing discrete sources, and to search for faint intergalactic synchrotron radiation on all scales down to the resolution limit of 4'. This method has already led to the successful detection of diffuse radio glow in part of the Coma supercluster.

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<tr>
<th>Name</th>
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<tbody>
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**Remote Observing Request**

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

**Instrument Setup**

430 G  

**Atmospheric Observation Instruments:**
Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

422 - 442