Technical Page

Proposal Identification No.: R2098
Date Received: 2005-May-21 09:47:05

Proposal Type: Urgent
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 15 Hours

Proposal Title: Urgent Proposal for Radar Observations of Comet P/2005 JQ5 (Catalina)

ABSTRACT:
This is an urgent proposal to make S-band radar observations of the recently discovered comet P/2005 JQ5 (Catalina) when it makes its unusually close approach to the Earth in late June, 2005. This will be the closest comet observed with the Arecibo radar since 1983. The main objective will be to image the nucleus in delay-Doppler and thus attempt the first direct radar measurement of a comet’s size.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>John K Harmon</td>
<td>Arecibo Observatory</td>
<td><a href="mailto:harmon@naic.edu">harmon@naic.edu</a></td>
<td>787-878-2612</td>
<td>no</td>
</tr>
</tbody>
</table>

Service Observing Request  
[X] None  
☐ All of the observing run.  
☐ Part of the observing run.  
☐ Queue Observing  

Remote Observing Request  
[X] No  
☐ Maybe  
☐ Yes  

Instrument Setup
S-Band radar  
S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned