Absolute Timing of the USA Experiment Using Pulsar Observations


Introduction

Regular timing observations of the Crab Pulsar RXTE J0535–67 is critical to unraveling rapidly emerging new information about the physics and processes of the pulsar wind system to compare the design and performance of alternate magnetars. The USA experiment has been in operation since 1995, and it is one of the few experiments to have been able to measure the spin of the Crab Pulsar to test its parity守则. Here we present the latest results of the USA pulsar timing observations covering the period 2004-2007.

Observations

The USA experiment has been using the RXTE satellite to observe the Crab Pulsar. The RXTE observations are taken during the RXTE orbit, which has a period of 101.3 days. The USA experiment has observed the Crab Pulsar in the RXTE orbit since 1995.

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Band</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXTE</td>
<td>0.3-10 keV</td>
<td>2004-2007</td>
</tr>
<tr>
<td>USA</td>
<td>1-10 keV</td>
<td>2004-2007</td>
</tr>
</tbody>
</table>

Data Processing

The data processing required in pulsar timing is dependent on the particular instrument, however, we are attempting to model the Crab Pulsar timing using the same template and analysis techniques as used in previous USA pulsar timing experiments. The template used for this experiment is a template from the USA experiment.

Results

The USA experiment has observed the Crab Pulsar in the RXTE orbit from 2004 to 2007. The USA experiment has observed the Crab Pulsar in the RXTE orbit from 2004 to 2007. The USA experiment has observed the Crab Pulsar in the RXTE orbit from 2004 to 2007. The USA experiment has observed the Crab Pulsar in the RXTE orbit from 2004 to 2007.

Discussion

At this point we can see that there are some excellent opportunities for improvement in the RXTE and the radio pulsar timing. We have improved the RXTE timing and the radio pulsar timing. We have improved the RXTE timing and the radio pulsar timing. We have improved the RXTE timing and the radio pulsar timing.

References


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