

Subject: Cas A write up, RJ antenna pattern

From: "Reyes,Francisco J." <freyes@astro.ufl.edu>

Date: 12/16/2014 13:43

To: Dave Typinski <davetyp@typnet.net>, Tom Ashcraft <ashcraft@heliotown.com>

CC: Chuck Higgins <chiggins@mtsu.edu>, Jim Thieman <james.r.thieman-1@nasa.gov>, Richard Flagg <rf@hawaii.rr.com>, "Leonard Garcia" <leonard.n.garcia@nasa.gov>, "Reyes,Francisco J." <freyes@astro.ufl.edu>

Hi Dave,

The two articles looks great.

I have one question.

In the long version you mention that the E-W HPBW of the RJ dual dipole array is 100 degrees.

Please take a look to the attached radiation diagram of the RJ antenna. According to my calculations it should be 72 degrees E-W (Upper figure). I used the multiplication of the radiation patterns to do this calculation. I did this back when we were trying to find a good design for the RJ antenna.

Let me know how you calculated the 100 degrees. Or let me know if anybody has a different value perhaps using a antenna software?

Francisco

From: Dave Typinski [davetyp@typnet.net]

Sent: Tuesday, December 16, 2014 11:10 AM

To: Tom Ashcraft

Cc: Chuck Higgins; Reyes,Francisco J.; Jim Thieman; Richard Flagg; Leonard Garcia

Subject: Cas A write up

Hi all,

After many great suggestions from Chuck and Francisco and Jim T and Dick, I think the Cas A write-up is pretty good. But it's also pretty long. Probably too long for the bulletin.

At this point, it may be better to separate it into two versions.

So I have done just that. Two word docs attached.

I suggest the shorter version should go in the Bulletin, while the longer version should go into the technical library on the Jove web site.

I think the longer version should also be submitted to the SARA journal.

Thoughts and comments solicited.

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Dave

— Attachments: —

RJ_ANTENNA_RADIATION_DIAGRAM.pdf

26.0 KB