

**Subject:** Referee's report on ApJ/ApJ82716  
**From:** apjse@physics.technion.ac.il  
**Date:** Fri, 25 Feb 2011 06:33:25 -0500  
**To:** cavagnolo@oca.eu  
**CC:** apjse@physics.technion.ac.il

February 25, 2011

Dr. K. W. Cavagnolo  
Observatoire de la Cote d'Azur  
UNS, CNRS UMR 6202 Cassiopee  
Nice  
France

Title: A Powerful AGN Outburst in RBS 797

Dear Dr. Cavagnolo,

We have received the referee report on your above submission to The Astrophysical Journal, and append it below. As you will see, the referee has only a few suggestions for relatively minor changes.

When you resubmit the manuscript, please include a cover letter in which you outline in detail the specific changes you have made in response to each of the referee's comments.

Click the link below to upload your revised manuscript;  
<http://apj.msubmit.net/cgi-bin/main.plex?el=A3Ew4WB7A6MKI1J7A9WdGiUQRY0gRwX0ZdzJqvNwZ>

Alternatively, can also log into your account at the EJ Press web site, <http://apj.msubmit.net>. Please use your user's login name: kcavagnolo. You can then ask for a new password via the Unknown/Forgotten Password link if you have forgotten your password.

The Astrophysical Journal has adopted a new policy that manuscript files become inactive, and are considered to have been withdrawn, six months after the most recent referee's report goes to the authors, provided a revised version has not been received by that time.

If you have any questions, feel free to contact me.

Best wishes,  
Ari Laor  
Scientific Editor  
The Astrophysical Journal

-----  
Referee Report

Reviewer's Comments:

I found the paper "A powerful AGN outburst in RBS 797" by Cavagnolo et al to be a thoughtful contribution in the area of AGN feedback. The paper is clearly written and

tells us about an interesting object which shows a very powerful outburst.

I did not find any problems with the paper scientifically and have only a few minor corrections which the authors might address:

Page 4, 1st paragraph: Are some of these directions round the wrong way? Shouldn't "northwest-southeast" be "northeast-southwest"? Is it not the eastern cavity that has more internal structure and has less well-defined cavities than the western cavity?

Page 4, final paragraph: "but no counterpart" - maybe should be "but no radio counterpart"?

Page 5, final paragraph: "pronounced entropy core" - should that be "pronounced low entropy core"?

Fig 3: The caption has left and bottom panels mentioned. Presumably this should be left and right.

Fig 4: are the blips around 200-300kpc in the surface brightness profile real or is it some sort of point source subtraction issue?

Fig 10: Is it possible to get a better colour scale for this image? It's a bit muddy and you can't see the features very well. Maybe one like Fig 2 or 1 might be better.