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**Your submission to Phys. Educ.: PED-103593**

1 pesan

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29 November 2022 pukul 22.15

Balas Ke: ped@iopublishing.org

Kepada: tonikus@staff.uad.ac.id, yoga.prabowo@staff.uad.ac.id, ishafit@pfis.uad.ac.id

Dear Mr Indratno,

Re: Archimedes' Principles Experimental Apparatus for Remote Physics Laboratory

Manuscript reference: PED-103593

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On behalf of:

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12 Desember 2022 pukul 13.22

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Re: "Archimedes' Principles Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593

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**Your manuscript PED-103593 - Major revisions required**

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**Physics Education** <onbehalf@manuscriptcentral.com>

3 Januari 2023 pukul 16.28

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Kepada: tonikus@staff.uad.ac.id

Cc: tonikus@staff.uad.ac.id, yoga.prabowo@staff.uad.ac.id, ishafit@pfis.uad.ac.id

Dear Mr Indratno,

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Lucy Joy

On behalf of:

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### REVIEWER REPORT(S):

Referee: 1

### COMMENTS TO THE AUTHOR(S)

I like the idea you present in the paper. However, it requires some edits before consideration for publishing it. I have listed some of the comments directly referring to the sections on the article.

#### Introduction:

1. References - there can be more references going along with Ref [1] or you can rephrase the text.
  2. "Using Archimedes' Principle, we can calculate the density of a liquid [2] through investigation activities" Also, you can find the density of the object using a liquid with a known density -- best if you add that as well.
  3. Ref. 3 - is this the correct reference for what you are discussing in the text?
  4. 3rd paragraph: "In his research, the motor was used to move three liquids in the container upwards." -- I don't understand what you are trying to say here. Re-write the paragraph in a manner a reader, who hasn't come across Ref. 3, can understand.
  5. Last paragraph: "In contrast to previous research, in this study, stepper motors were used to move objects so that they were immersed in liquid ". It is important to mention the types of objects (wood/metal or other), and liquids (water/oil or any other liquid?) you are using in this experiment.  
 "Data is recorded": what data? heights or depths?  
 "event with entry": can you be more specific here?
- Last paragraph is the most important paragraph in this section; however, it is not explained well. consider re-writing the paragraph.

#### Archimedes' Principle:

6. "The deeper the object is submerged, the greater the pressure force on the object." Did you mean " deeper the object is, more pressure it experiences"? what is "pressure force"?

7. Equations: 2, 3, and 4 (also marked as 3) somewhere at the beginning you may want to mention "static equilibrium". It is important.

8. Why do you use, "mapp" for the true mass of the object?  
 What is Wapp ? is that apparent weight? It is important to say so.

#### Hardware design:

9. "Adjusting the stepper motor's rotation makes it possible to move objects so that they are immersed in liquid every 4 cm3." I don't fully understand this. Explain it better.

10. "Experimental data in the form of the object's gravity, when the object is suspended in the air or submerged in a liquid, was obtained using a Force Sensor from Vernier Technology." Are you discussing the "true and apparent weights" here? please explain it.

11. Ref. [9] - can you change or add another reference that explains the LABVIEW software? Ref. 9 is specific for X-ray spectrometry IAEA beamline end-station at Elettra Sincrotrone Trieste.

12. "offline use is enough to install on a computer, then connect the computer to the apparatus, and the system is ready to use." re-write or explain it better.

13. The remote laboratory system architecture used in this experiment is as written in [10] -- This is an important piece of information. Please include all the details in the paper or set up an external document and include it as a supplementary material

Discussion and conclusion:

14. There is no figure 11 - " Figure 11 shows a graph of the results of fitting the data into a linear equation, with the volume of the immersed object (  $V_x$  ) as the dependent variable  $x$  and the upward pressure force as the independent variable  $y$ ." where is the figure?

15. What is the equation of the graph?

Can you show the equation, relating  $V_x$  and the density of the unknown liquid, where you display the graph?

16. It is important to write about the user feedback? Do you have any feedback from the students, colleagues or any other users who have used the remote?

17. What are the constraints? When someone is doing the experiment remotely, can they change the liquid? When it comes to non-metallic objects - like wood for example, how would you proceed? It may be important to include the experimental constraints as well.

Additional comments from the editorial team:

We notice that the link you've included in your paper leading to the r-phylab site seems to lead to a general website. It is not clear what this link is supposed to lead to, as a lot of this site is in Indonesian, and the obvious links at the bottom (labelled "available courses") are password protected. Please can you check this link leads to your intended site, and add some clarity around what the site adds to the paper. Thank you.

Letter reference: DEC:MajRev:S

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**Your submission to Phys. Educ.: PED-103593.R1**

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**Physics Education** <onbehalf@manuscriptcentral.com>

18 Januari 2023 pukul 09.03

Balas Ke: ped@iopublishing.org

Kepada: tonikus@staff.uad.ac.id, ishafit@pfis.uad.ac.id, yoga.prabowo@staff.uad.ac.id

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Re: "Archimedes' Principles Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593.R1

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24 Januari 2023 pukul 23.23

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Kepada: tonikus@staff.uad.ac.id

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Cc: tonikus@staff.uad.ac.id, ishafit@pfis.uad.ac.id, yoga.prabowo@staff.uad.ac.id

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### REVIEWER REPORT(S):

Referee: 1

### COMMENTS TO THE AUTHOR(S)

Dear Editor,

I spent a considerable amount of time reading the edited article. While I admire the authors' research on the remotely operable Archimedes lab, the paper is still challenging to read. I strongly advise the authors to have a native English speaker proofread the document before submission.

You have accepted our previous suggestions, and inserted in some places interrupting the flow of the article. I have quoted some (not all) sections below as examples,

"Referring to research that has been done and things that still need to be done in developing the Archimedes principle experimental apparatus, this article discusses the development of the Archimedes principle experimental apparatus for remote laboratory-based experiments."

"This Archimedes principle experimental apparatus can be used in physics learning experimentally based in a remote laboratory." - It is hard to understand

"The deeper the object is submerged, the greater the buoyant force on the object. Thus the direction of the buoyant force will be upward." (??) I don't see any relationship between the two lines.

" Experimental data in the form of an object's weight, Wapp, when the object is suspended in the air or submerged in a liquid, was obtained using a Force Sensor product from Vernier Technology. -- Not very clear

"The use of LabVIEW in developing this GUI is because LabVIEW has web publishing tools features." -- Not very clear

"Based on the remote experimental results, from Figure 11, data is obtained that there is a linear relationship between the volume of the immersed object and the force read on the sensor." -- Not very clear

"The feedback results show that the use of remote physics laboratories in physics experiments gets a very good response. The score that still needs to be improved is the ease of use aspect." -- What did you get as feedback? What was in the questionnaire? What did the users like the most/least about the experiment? -- please be specific

In addition, if you consider resubmitting the paper, Figures 6, 7 and 8 can go into supplementary material.

Material and Method: The section can be replaced by "Physics behind the Experiment" and "Experimental details" or

something along those lines.

Additional comments from the editorial team:

Your manuscript requires further language editing to bring it up to the required standards of the journal. Please thoroughly proofread your revised article before submission. If necessary, you can seek help from a professional language editing service such as Editage:

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## Your manuscript PED-103593.R2 - Minor revisions required

1 pesan

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20 September 2023 pukul 12.28

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Re: "Archimedes' Principles Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593.R2

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### REVIEWER REPORT(S):

Referee: 1

### COMMENTS TO THE AUTHOR(S)

Dear Authors,

This time, I had a more comprehensive understanding of the paper as I read through it. I did notice some language issues that required attention. I provided several suggestions for rephrasing certain sections. Accepting them or not, is completely up to you.

Abstract:

"So, the developed apparatus can be used in online experimental-based physical learning. "

Do you want to say, " So, the developed apparatus can be used as an experimental-based learning tool in an online platform?"

Introduction:

first page, first column 42:

The sentence is still confusing – think about re-writing or changing it to something like "A strong comprehension of Archimedes' principles can significantly enhance a student's grasp of various other fluid mechanical concepts."

44: Change "soaked" to "immersed."

50-54 "However, in many schools, learning related to this topic is still dominated by discussions in theoretical studies without being accompanied by experimental activities, even though experimental activities are an essential aspect of learning, especially in physics [4]."

Consider re-writing it: "Due to the lack of physical resources in certain schools, lessons pertaining to the aforementioned principle are often confined to theoretical discussions, devoid of any practical hands-on experience."

57 What is "beam three balance"? Is it "triple beam balance?"

59. Soaked -- It's incorrect - should be "immersed."

first page, second column

You used "load is hung," and the object is dipped." Are you referring to the same?

"The container containing liquid is then transferred (computerized) until the object is immersed." -- Sorry, I am lost here.

Was the container with liquid lifted until the hanging object was immersed? And was the setup operated remotely with the aid of computers?

"Based on the previous studies, the development of Archimedes' experimental apparatus is needed."

As I understand, you are trying to say there is a clear need to develop an experimental apparatus based on Archimedes' principles. But you never mentioned a flaw in the previous research. Discuss what flaws you observe in the previously reported studies.

page 2

21 "resultant of the compressive force" did you mean a resistive force?

26. "the force due to pressure experienced by a partially submerged object." Did you mean pressure-induced force?

46 "Vx is the volume of the object submerged" - Not correct! It would be best if you said displaced fluid or the volume of the fraction of the submerged object. -- The way you wrote it, the reader might misunderstand it as the total volume of the object. As I understood, you are slowly immersing the object while taking data - right? Not submerging different objects, right? you mentioned the following on the paper, "Users can observe the movement of objects when immersed through video streaming from the camera installed in the apparatus"

49. "..... the value read is based on the tension in the rope connecting the object to the sensor."

It would read better if you wrote it like " .....the sensor directly reads the tension on the string as shown in equation (2)."

Page 2, column 2

"..... can write down the forces acting on objects based on figure 2 "

The net force on the object can be expressed by equation (3)

"W-object is the sensor's value when the object is submerged in liquid. "

Is W-object the sensor's reading? Then, what is Fnet?

page 3

7-8 "Diagrammatically, the experimental apparatus Archimedes' Principle's design is shown in Figure 4."

Change to something like: The hardware schematics of the experiment are given in Figure 4

In the seven steps 47-54, you are using upper case letters for some and lower case for others - please consider using one type (simple or capital letters - pick one)

Page 3: PLEASE CHECK THE TWO COLUMNS ON THE UPPER HALF AND THE LOWER HALF [ below the figure]. The columns don't run from top to bottom, maybe because of the figure in between. I haven't seen the columns broken the way they are in this article --> This could be an error on MSW. If the editors decide to replace the image, the text may not read correctly. Please check with the editorial board.

PAGE 4: PLEASE CHECK THE TWO COLUMNS ON THE UPPER HALF AND THE LOWER HALF [ below the figure] -- Please check with the editorial board

Page 4:

" The real form of the development of an experimental .....

in Figure 7." Please reword this: suggestion - " Figure 7 displays the apparatus used in the Archimedes experiment, including all the associated hardware.

Discussion:

"Based on the results of remote experiments (see Figure 8), data were obtained for a linear relationship between the volume of a submerged object and the force read on the sensor."

As shown in Fig. 8, Vx and the sensor reading, Fnet, show a linear relationship.

page 5

56-58 " ..... determined using the ratio of the line gradient to the acceleration due to gravity ( $g = 9.8 \text{ m/s}^2$ )..... "

consider the below change,

$$F = V(\rho) g$$

$$y = mx$$

Thus, the slope,  $m$ , of the graph =  $(\rho)g$ , and by using this, one can find the density of the unknown liquid.

Please re-read the paper and make sure there are no physics related mistakes.



Good Luck!

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Kepada: tonikus@staff.uad.ac.id, ishafit@pfis.uad.ac.id, yoga.prabowo@staff.uad.ac.id

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Re: "Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593.R3

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Re: "Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593.R3

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Referee: Editor-in-Chief

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**Physics Education** <onbehalf@manuscriptcentral.com>

15 November 2023 pukul 21.57

Balas Ke: ped@iopublishing.org

Kepada: tonikus@staff.uad.ac.id

Dear Mr Indratno,

Re: "Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593.R4

Apologies for the spelling error in the previous email.

For Figures 1 &amp; 2 you will need to provide proof of permission from Brooklyn College, or evidence that the reused content is Open Access as you have stated.

For Figure 6 nothing further is needed since IOPP already own the copyright. As long as it's referenced correctly no permission is needed.

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We look forward to hearing from you.

Yours sincerely,

Poppy Clark

On behalf of:

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**Permissions request for your manuscript PED-103593.R4**

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**Toni Kus Indratno** <tonikus@staff.uad.ac.id>  
Kepada: PED Mailbox <ped@iopublishing.org>

13 November 2023 pukul 12.32

Dear Editor,,

Thank you for your email,

Regarding Figures 1 and 2 in our manuscript, Manuscript reference: PED-103593.R4, we have redrawn these images from the source, and the source is also a document that can be accessed freely via the link: <http://depthome.brooklyn.cuny.edu/physics/lab/phy1/Archimedes-principle-rev-20190619.pdf>.

However, because we cannot provide permission from the original owner, we have changed the source of the image to [6] C. Gianino, "Microcomputer-Based Laboratory for Archimedes' Principle and Density of Liquids," Phys. Teach., vol. 46, no. 1, pp. 52–54, Jan. 2008, doi: 10.1119/1.2824002, because the picture is more or less the same. We have also applied for permission from AIP Publishing to use the image. We include permission from AIP Publishing in this email. We also resend the manuscript, which we have revised in the image reference section, via this email.

Best regards,  
Toni Kus Indratno


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**DINAR & DIRHAM**  
*Hidup Bahagia Tanpa Riba*<http://tonikus.staff.uad.ac.id>

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**Physics Education** <onbehalf@manuscriptcentral.com>

16 Januari 2024 pukul 15.35

Balas Ke: ped@iopublishing.org

Kepada: tonikus@staff.uad.ac.id

Dear Mr Indratno,

Re: "Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593.R4

Following up on our previous emails.

We need:

For Figures 1 & 2 you will need to provide proof of permission from Brooklyn College, or evidence that the reused content is Open Access as you have stated.

For Figure 6 nothing further is needed since IOPP already own the copyright. As long as it's referenced correctly no permission is needed.

Please reply to this email to let us know whether this is the case. We will then let you know if any further action is required.

I have attached the permissions spreadsheet that you provided us previously.

Please reply to this email to let us know whether this is the case. or if you need any assistance, we cannot accept your paper until we have resolved this.

We look forward to hearing from you.

Yours sincerely,

Poppy Clark

On behalf of:

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**Toni Kus Indratno** <tonikus@staff.uad.ac.id>

18 Januari 2024 pukul 06.36

Kepada: ped@iopublishing.org

**Dear Editors,**

Thank you for your email.

Regarding Figures 1 and 2 in our manuscript (Manuscript reference: PED-103593.R4), we have redrawn them from the original source, <http://depthome.brooklyn.cuny.edu/physics/lab/phy1/Archimedes-principle-rev-20190619.pdf>. However, we cannot provide proof of permission from Brooklyn College or evidence that the content we use is open access. At other times, we have also tried to search for alternative references. We found that C. Gianino, in 2008, had also published relatively similar images in Phys. Teach., vol. 46, no. 1, pp. 52–54.

Publication of C. Gianino in Phys. Teach. including primary reference types. Meanwhile, references from <https://www.brooklyn.edu/> are secondary references. Therefore, we have changed the references to Figures 1 and 2. We have also obtained permission from AIP Publishing, and we sent it in this email. We also attach a manuscript whose references have been corrected.

Notes:

Our latest reference is [6] C. Gianino, "Microcomputer-Based Laboratory for Archimedes' Principle and Density of Liquids," Phys. Teach., vol. 46, no. 1, pp. 52–54, Jan. 2008, doi: 10.1119/1.2824002, which appeared earlier than the source image from Brooklyn College.

So, this can be considered by the Physics Education Journal editor.

Best regards,  
Toni Kus Indratno

[Kutipan teks disembunyikan]

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**DINAR & DIRHAM**

*Hidup Bahagia Tanpa Riba*

<http://tonikus.staff.uad.ac.id>

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8 Februari 2024 pukul 17.35

Balas Ke: ped@iopublishing.org

Kepada: tonikus@staff.uad.ac.id, ishafit@pfis.uad.ac.id, yoga.prabowo@staff.uad.ac.id

Dear Mr Indratno,

Re: "Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory"

Manuscript reference: PED-103593.R4

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Thank you for choosing to work with Physics Education. We look forward to publishing your Paper.

Yours sincerely,

Poppy Clark

On behalf of:

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ped@iopublishing.org <ped@iopublishing.org>  
Kepada: tonikus@staff.uad.ac.id

17 Februari 2024 pukul 17.22

Re: "Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory" by Indratno et al

Dear Mr Indratno,

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Best regards,

Martin Kitts  
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**ped@iopublishing.org** <ped@iopublishing.org>  
Kepada: tonikus@staff.uad.ac.id

18 Februari 2024 pukul 07.12

Dear Mr Indratno

Re: "Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory" by Indratno et al

Thank you for submitting your proof corrections. We will next contact you when your article has been published online unless we have any further queries or if you have previously requested a second proof.

We cannot guarantee that any late corrections received after the proof check has been completed will be made before publication.

Yours sincerely

Martin Kitts

Production Editor

Physics Education

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Kepada: tonikus@staff.uad.ac.id

23 Februari 2024 pukul 21.08

Re: Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory by Indratno et al

Dear Mr Indratno,

Your article has been published on IOPscience with the following DOI: <https://doi.org/10.1088/1361-6552/ad27a6>

This notice of publication has been sent to you (as the corresponding author) only, so you may wish to forward the link to your co-authors.

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Thank you for your support of Physics Education. We look forward to working with you again in the future.

Best regards,

Martin Kitts  
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Copyright Completion submitted (12-Dec-2022) - <a href="#">view</a>	<ul style="list-style-type: none"> <li>Formal Accept (08-Feb-2024)</li> </ul> <a href="#">view decision letter</a>	PED-103593.R4	Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory <a href="#">View Submission</a>	19-Oct-2023	08-Feb-2024
a revision has been submitted (PED-103593.R4)	<ul style="list-style-type: none"> <li>Minor Revision (16-Oct-2023)</li> <li>a revision has been submitted</li> </ul> <a href="#">view decision letter</a>	PED-103593.R3	Archimedes' Principle Experimental Apparatus for Remote Physics Laboratory <a href="#">View Submission</a>	26-Sep-2023	16-Oct-2023







ACTION	STATUS	ID	TITLE	SUBMITTED	DECISIONED
a revision has been submitted (PED-103593.R3)	<ul style="list-style-type: none"> <li>Minor Revision (20-Sep-2023)</li> <li>a revision has been submitted</li> </ul>	PED-103593.R2	Archimedes' Principles Experimental Apparatus for Remote Physics Laboratory	09-Mar-2023	20-Sep-2023
	<a href="#">view decision letter</a>		<a href="#">View Submission</a>		
a revision has been submitted (PED-103593.R2)	<ul style="list-style-type: none"> <li>Moderate Revision (27-Feb-2023)</li> <li>a revision has been submitted</li> </ul>	PED-103593.R1	Archimedes' Principles Experimental Apparatus for Remote Physics Laboratory	24-Jan-2023	27-Feb-2023
Copyright Completion submitted (12-Dec-2022) - <a href="#">view</a>	<a href="#">view decision letter</a>		<a href="#">View Submission</a>		
a revision has been submitted (PED-103593.R1)	<ul style="list-style-type: none"> <li>Major Revision (03-Jan-2023)</li> <li>a revision has been submitted</li> </ul>	PED-103593	Archimedes' Principles Experimental Apparatus for Remote Physics Laboratory	29-Nov-2022	03-Jan-2023
	<a href="#">view decision letter</a>		<a href="#">View Submission</a>		
	<ul style="list-style-type: none"> <li>Reject (25-May-2021)</li> </ul> <p><i>Archiving completed on 29-Jul-2021</i></p> <p><a href="#">view decision letter</a></p>	PED-102812	Magnetic field on a square Helmholtz coil experiments using R-PhyLab Files Archived 	30-Apr-2021	25-May-2021
a resubmission has been submitted (PED-102812)	<ul style="list-style-type: none"> <li>Reject to Resubmit</li> </ul>	PED-102658	R-PhyLab user experience for magnetic	28-Jan-2021	19-Feb-2021

ACTION	STATUS	ID	TITLE	SUBMITTED	DECISIONED
	<p>(19-Feb-2021)</p> <ul style="list-style-type: none"><li>a resubmission has been submitted</li></ul> <p><i>Archiving completed on 29-Jul-2021</i></p> <p><a href="#">view decision letter</a></p>		<p>field experiments using a square Helmholtz coil</p> <p><i>Files Archived</i> </p>		

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