

QOLab





Introduction

Scientific work revolves around papers and articles, and there are already platforms that allow to archive and distribute them, but they're not so good for collaboration and the evolution of ideas and understanding. The novelty of this project resides on the fact that collaboration and collective knowledge is at its core, allowing students to get a faster and deeper understanding on difficult topics, such as Quantum Computing.

TEAM

Mentor: Adam Glos



Manvi Gusain
DESIGN AND CREATIVE HEAD

Israel Gelover
BACKEND DEVELOPER

*Muhammad
Usaid*
FRONTEND DEVELOPER

*Subhra
Priyadarshini*
DESIGN AND ART

Objectives

- Create a proof of concept of the main ideas behind the project motivation
- Create a Minimum Viable Product (MVP) that can be tested and enhanced in future iterations.
- Collect as many ideas as possible for the evolution of the project after QJam 2021.

The background of the image is a high-angle aerial photograph of a large, frozen body of water. The ice surface is a light blue color with numerous dark, irregular cracks and patches of white snow or debris. The overall texture is rugged and organic.

PROJECT PROGRESS

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On the Einstein Podolsky Rosen Paradox J.S. Bell Department of Physics 1964

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On The Einstein Podolsky Rosen Paradox



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Test Paper

Abstract:

Ullamcorper a lacus vestibulum sed arcu non. Volutpat consequat mauris nunc congue nisi vitae. Eget magna fermentum iaculis eu non diam phasellus vestibulum lorem. A pellentesque sit amet porttitor eget dolor. Et molestie ac feugiat sed lectus vestibulum mattis. Feugiat scelerisque varius morbi enim nunc. Nibh venenatis cras sed felis eget velit aliquet sagittis id. Magna fringilla urna porttitor rhoncus dolor purus non. Eu tincidunt tortor aliquam nulla facilisi. Felis eget velit aliquet sagittis id consectetur purus ut faucibus. Sit amet massa vitae tortor condimentum lacinia quis vel. Netus et malesuada fames ac turpis egestas integer. Tellus in metus vulputate eu scelerisque. Ut diam quam nulla porttitor massa id neque aliquam vestibulum.

Comments

Sed ut perspiciatis, unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam eaque ipsa, quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt, explicabo

1 like 1 comment

ADD COMMENT

Replies

Nemo enim ipsam voluptatem, quia voluptas sit, aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos, qui ratione voluptatem sequi nesciunt, neque porro quisquam est, qui dolorem ipsum, quia dolor sit amet consectetur adipisci[ng] velit, sed quia non numquam [do] eius modi tempora inci[di]dunt, ut labore et dolore magnam aliquam quaerat voluptatem.

1 like 0 comments

Questions

Mattis nunc sed blandit libero volutpat sed?

1 like 0 answers

Answers

Hac habitasse platea dictumst vestibulum rhoncus est pellentesque. Iaculis eu non diam phasellus vestibulum lorem sed risus ultricies.

1 like 1 answer

Qolab API v1 OAS3

<http://localhost:8000/swagger/v1/swagger.json>

Articles

^

GET `/api/Articles/{id}` Gets an article by its internal ID

▼

PUT `/api/Articles/{id}` Updates Title, Summary, Tags and Content of an existing article

▼

DELETE `/api/Articles/{id}` Deletes an existing article

▼

GET `/api/Articles` Performs a Full Text Search on the article Title, Summary, Tags and Content

▼

POST `/api/Articles` Creates a new article entry on the DB

▼

POST `/api/Articles/{id}/paper/{paperId}` Links an existing paper to an existing article

▼

POST `/api/Articles/{id}/up-vote` Adds a +1 to the article likes counter.

▼

POST `/api/Articles/{id}/down-vote` Adds a +1 to the article dislikes counter.

▼

POST `/api/Articles/{id}/comments` Adds a comment to an existing article

▼

POST `/api/Articles/{id}/comments/{commentId}` Adds a reply to an existing comment

▼

POST `/api/Articles/{id}/comments/{commentId}/up-vote` Adds a +1 to the comment likes counter.

▼

- GET** /api/Articles Performs a Full Text Search on the article Title, Summary, Tags and Content
- POST** /api/Articles Createas a new article entry on the DB
- POST** /api/Articles/{id}/paper/{paperId} Links an existing paper to an existing article
- POST** /api/Articles/{id}/up-vote Adds a +1 to the article likes counter.
- POST** /api/Articles/{id}/down-vote Adds a +1 to the article dislikes counter.
- POST** /api/Articles/{id}/comments Adds a comment to an existing article
- POST** /api/Articles/{id}/comments/{commentId} Adds a reply to an existing comment
- POST** /api/Articles/{id}/comments/{commentId}/up-vote Adds a +1 to the comment likes counter.
- POST** /api/Articles/{id}/comments/{commentId}/down-vote Adds a +1 to the comment dislikes counter.
- POST** /api/Articles/{id}/questions Adds a question to an existing article
- POST** /api/Articles/{id}/questions/{questionId}/up-vote Adds a +1 to the question likes counter.
- POST** /api/Articles/{id}/questions/{questionId}/down-vote Adds a +1 to the question dislikes counter.
- POST** /api/Articles/{id}/questions/{questionId} Adds and answer to an existing question
- POST** /api/Articles/{id}/questions/{questionId}/answers/{answerId}/up-vote Adds a +1 to the answer likes counter.
- POST** /api/Articles/{id}/questions/{questionId}/answers/{answerId}/down-vote Adds a +1 to the answer dislikes counter.
- POST** /api/Articles/{id}/questions/{questionId}/answers/{answerId}/accept Marks an existing answer as accepted

GET /api/Papers/{id} Gets a paper by its internal ID ▼

PUT /api/Papers/{id} Updates Title, Abstract and Authors of an existing paper ▼

DELETE /api/Papers/{id} Deletes an existing paper ▼

GET /api/Papers Performs a Full Text Search on the paper Title, Abstract and Authors ▼

POST /api/Papers Creates a new paper entry on the DB ▼

POST /api/Papers/import Imports a paper info from arxiv.org ▼

Schemas ^

AnswerDto >

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ArticleShortDto >

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PaperDto >

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Future Prospects

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ON THE EINSTEIN PODOLSKY ROSEN PARADOX

J.S. Bell

Department of Physics, University of Wisconsin, Madison, Wisconsin

1964

On the Einstein-Podolsky-Rosen Paradox

Roy McWeeny

[https://doi.org/10.1016/S0065-3276\(08\)60492-X](https://doi.org/10.1016/S0065-3276(08)60492-X).

...



Articles linked to paper : On the Einstein Podolsky Rosen paradox

[The EPR paradox and Bell's Inequality](#)

Created by Alice - 3 years ago



325



0

...

[The EPR paradox and the uncertainty principle](#)

Created by Bob - 2 years ago



123



0



The EPR paradox and Bell's Inequality

In 1935 Albert Einstein and two colleagues, Boris Podolsky and Nathan Rosen (EPR) developed a thought experiment to demonstrate what they felt was a lack of completeness in quantum mechanics. This so-called "EPR Paradox" has led to much subsequent, and still ongoing, research. This article is an introduction to EPR, Bell's Inequality, and the real experiments that have attempted to address the interesting issues raised by this discussion.

...

Question: How does one go from Eq. (8) to Eq. (9)?

(Open)

Created by Charlie - 4 months ago



Add Answer

...

The step you need to care about is...

Created by Eve - 2 months ago



Mark as Answer

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The EPR paradox and Bell's Inequality

In 1935 Albert Einstein and two colleagues, Boris Podolsky and Nathan Rosen (EPR) developed a thought experiment to demonstrate what they felt was a lack of completeness in quantum mechanics. This so-called "EPR Paradox" has led to much subsequent, and still ongoing, research. This article is an introduction to EPR, Bell's Inequality, and the real experiments that have attempted to address the interesting issues raised by this discussion.

...

Question: How does one go from Eq. (8) to Eq. (9)? (Resolved)

Created by Charlie - 4 months ago

8 0

...

The step you need to care about is... (Marked as Answer)

Created by Eve - 2 months ago

4 0

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The EPR paradox and Bell's Inequality

In 1935 Albert Einstein
to demonstrate what t
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real experiments that I

...

Question: How does o

Created by Charlie - 4

...

The step you need to

Created by Eve - 2 months ago

Write a message to the Author

Word limit 100 to 150(explain your interest and reasons for collaboration)

0/150

Send



[Click Here | To Send an Invite for collaboration to the Author](#)



Sample: Email

Gmail in: draft

Invite for Collaboration

To  -----author123@gmail.com----- X

Cc Bcc

Invite for Collaboration

respected/Hello Mr/Mrs/Miss Author xyz,

-----120-150 words message here -----

Looking forward to working with you.

Regards,
--sender name ---

[Click here | to Accept the Invite](#)

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ON THE EINSTEIN PODOLSKY ROSEN PARADOX*

J. S. BELL

*Department of Physics, University of Wisconsin, Madison,
Wisconsin*

I. Introduction

THE paradox of Einstein, Podolsky and Rosen [1] was advanced as an argument that quantum mechanics could not be a complete theory but should be supplemented by additional variables. These additional variables were to restore to the theory causality and locality [2].

1

With the example advocated by Bohm and Aharonov , the EPR argument is the following. Consider a pair of spin one-half particles formed somehow in the singlet spin state and moving freely in opposite directions. Measurements can be made, say by Stern-Gerlach magnets, on selected components of the Spins

2



ON THE EINSTEIN PODOLSKY ROSEN PARADOX*

J. S. BELL

*Department of Physics, University of Wisconsin, Madison,
Wisconsin*

1 comment

**These additional variables
were to restore to the theory causality and locality [2]**

Alice

What is the physical significance of causality and locality ?

Dec 4 , 2021 at 11:38 pm





ON THE EINSTEIN PODOLSKY ROSEN PARADOX*

J. S. BELL

*Department of Physics, University of Wisconsin, Madison,
Wisconsin*

1 comment

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ON THE EINSTEIN PODOLSKY ROSEN PARADOX*

J. S. BELL

*Department of Physics, University of Wisconsin, Madison,
Wisconsin*

Replies

**These additional variables
were to restore to the theory causality and locality [2]**

Alice

What is the physical significance of causality and locality ?

Dec 4 , 2021 at 11:38 pm

Be the first to reply

Conclusion

**By this project , we are proposing
a platform where Quantum
society can collaborate , join
forces and ultimately strengthen
the field of openness of science
and hence promoting a worldwide
culture that might lead to
unprecedent growth of scientific
discoveries**



Thank You