

Multi-messenger Astroparticle Physics for the Public via the astroparticle.online Project

PoS(ICRC2021)1373

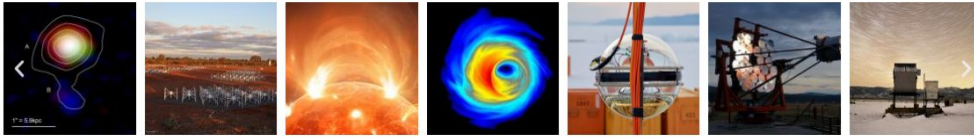
Victoria Tokareva^{+a}, Yulia Kazarina^b, Andreas Haungs^a, Dmitry Kostunin^c, Alexander Kryukov^d, Evgeny Postnikov^d, Vladimir Samoliga^b, Alexey Shigarov^{b,e}, Dmitry Shipilov^f, Dmitry Zhurov^b



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Astroparticle.online is an outreach project created in a framework of GRADLC initiative. Our goal is to make astroparticle physics open and accessible for everyone through sharing our knowledge, materials, data and available information resources with a broad public.

Astroparticle.online provides a vast array of resources:

In the [Science](#) section you can get information about multi-messenger astronomy, while the section [Experiments](#) describes the modern observatories aimed on multi-messenger registration. With section [Events](#) you will always be aware of all conferences, workshops and seminars in the field of particle and

News

[Selections from 2020: A Twinkling Black Hole](#)

29.12.2020

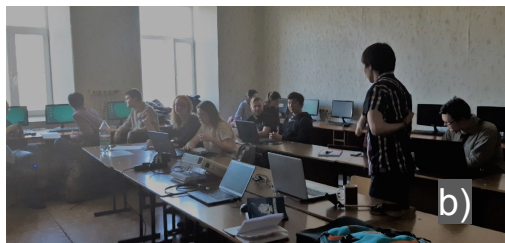
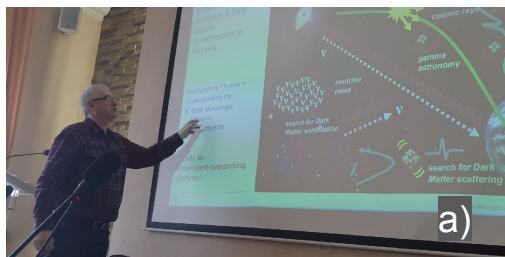
Recent observations show that the supermassive black hole at the center of the Milky Way, Sagittarius A*, flickers on a regular timescale of 30

- Aim: bring multi-messenger astronomy to the public
- Realization: live masterclasses, articles and interactive materials on <https://astroparticle.online/>
- Educational direction of GRADLCI
- Created in the framework of Baikal Multi-messenger Lab at ISU
- Audience: high school and bachelor students
- Supported by: TAIGA and KASCADE collaborations
- Live events: Irkutsk, Russia

Lectures and masterclasses

- ~10 masterclasses
- course "Introduction to astroparticle physics" at ISU
- > 300 students
- Baikal summer school -18, -19
- DLC-18, -19, -20

See also:
PoS(ICRC2021)938



Figures:

- Dr. A. Haungs gives a lecture on multi-messenger astronomy for broad audience, ISU, 2019*
- Data analysis masterclass, ISU, 2018*
- Students at an excursion to Baikal GVD*

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Online education

Read and see:

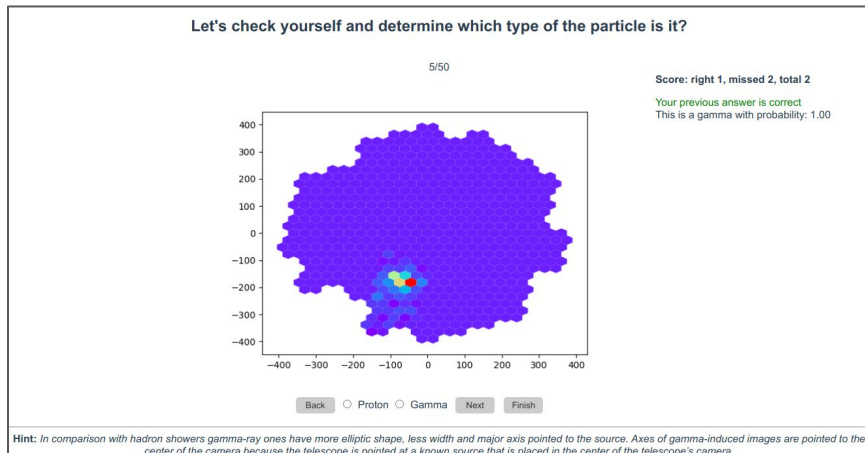
- Lectures
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Interactive:

- Labs, Data analysis
- TAIGA CNN client

Solve:

- Tasks
- Tests



Interactive deep-learning based application TAIGA CNN client

tokareva.victoria@kit.edu