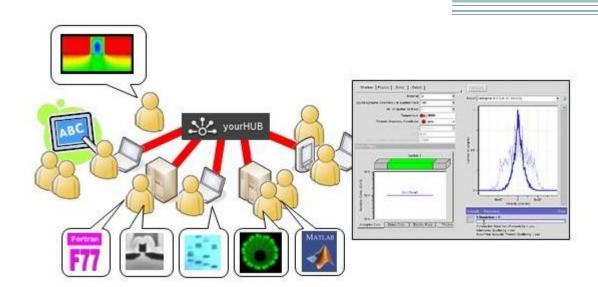
# HUBzero: status and plans Kazarina Yuliya (API ISU)

KRAD-APPDS Face2Face Meeting 2018.10

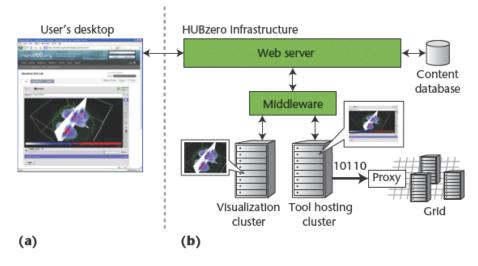




<u>HUBzero</u> is an open-source software platform for building powerful Websites that support scientific discovery, learning, and collaboration. The HUBzero software allows individuals to access simulation tools and share information.

#### HUBzero built from open-source software:

- \* Linux operating system
- \* Apache web server
- \* MySQL database
- \* Joomla content management system
- \* PHP web scripting language



HUBzero have been deployed on the servers of Matrosov Institute for System Dynamics and Control Theory

#### Minimum system requirements

\* Debian OS, multi-core processor, 4 GB of RAM,10 GB of hard disk space <u>Recommended requirements</u>

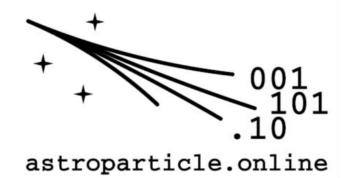
\* Debian OS, multi-core processor, 24 GB of RAM, TB of hard disk space

#### Possible bugs:

- \* Errors when installing packages due to differences in software versions
- \* Errors associated with databases
- \* Internal server error

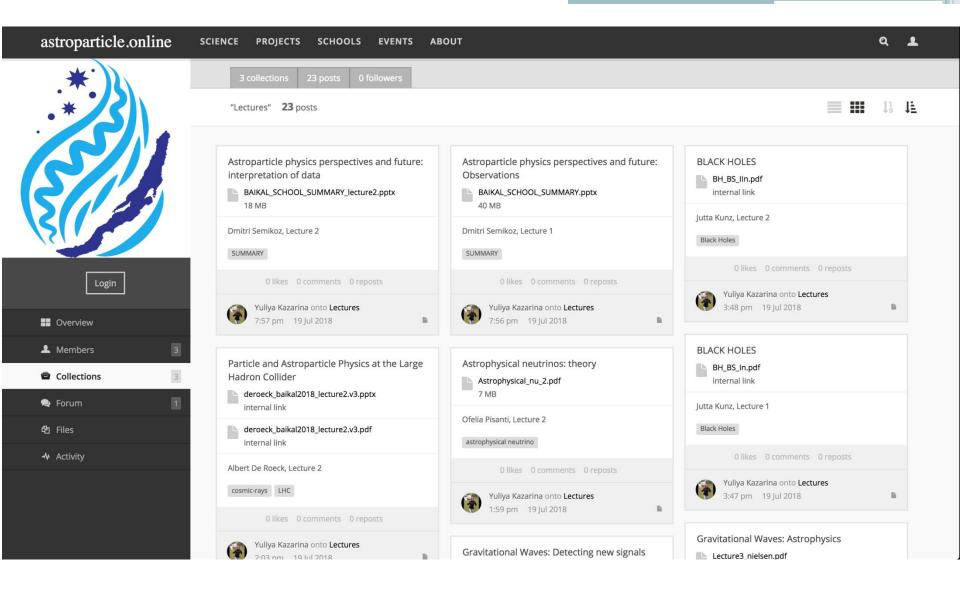
## Possible solutions

- \* Installation using a virtual machine
- \* Manually correcting database dumps
- \* Manually configuring the server



- \* ISSAP-Baikal Summer School "Exploring the Universe through multiple messengers" July 12 to 21, 2018
- \* The lack of internet connection at the place of the conference  $\rightarrow$  deployment of the astroparticle.online locally
- \* Organizers could spread the conference materials, lectures, student reports on the site
- \* The school participants had the opportunity to access the school materials online, they also could post their impressions, photos and video comments on the page of the school

# Screen of the school page



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1. New regular course of ISU Physics faculty for bachelor and master students

*"Introduction in experimental astroparticle physics"* is being developed

\* Documentation on astroparticle physics and experiments

- \* Laboratory workshop on modeling and data analysis for students
- 2. Working group in Irkutsk (Dima K the leader) Course works in the frame of TAIGA and Baikal-GVD experiments

\* Astroparticle forum

- \* Advertisement of the project Russian-German astroparticle data Life cycle initiative
- \* Advertisement of the TAIGA and GVD, attraction of students to the work in the TAIGA and GVD experiments
- \* Tunka-Rex data release
- \* Test case for multimessenger with Tunka-Rex data
- \* Education of students in the frame of ISU course
- \* Astroparticle forum for students

Now:

# <u>System administrator</u> D. Shipilov

<u>Content administrator</u> Y. Kazarina Should be:

<u>System administrator</u> D.Shipilov's replacement

<u>Content administrator</u> Working group (> 2-3 persons)

#### The results in the frame of the grant:

- \* The deployment of the HUBzero
- \* Posting the initial content on the site
- \* The first use of HUBzero
- \* HUBzero presentation at the GRID conference (poster, proceeding)
- \* The report is mostly prepared

## Questions for the further work:

- \* HUBzero platform or alternative
- \* Content
- \* Human resources