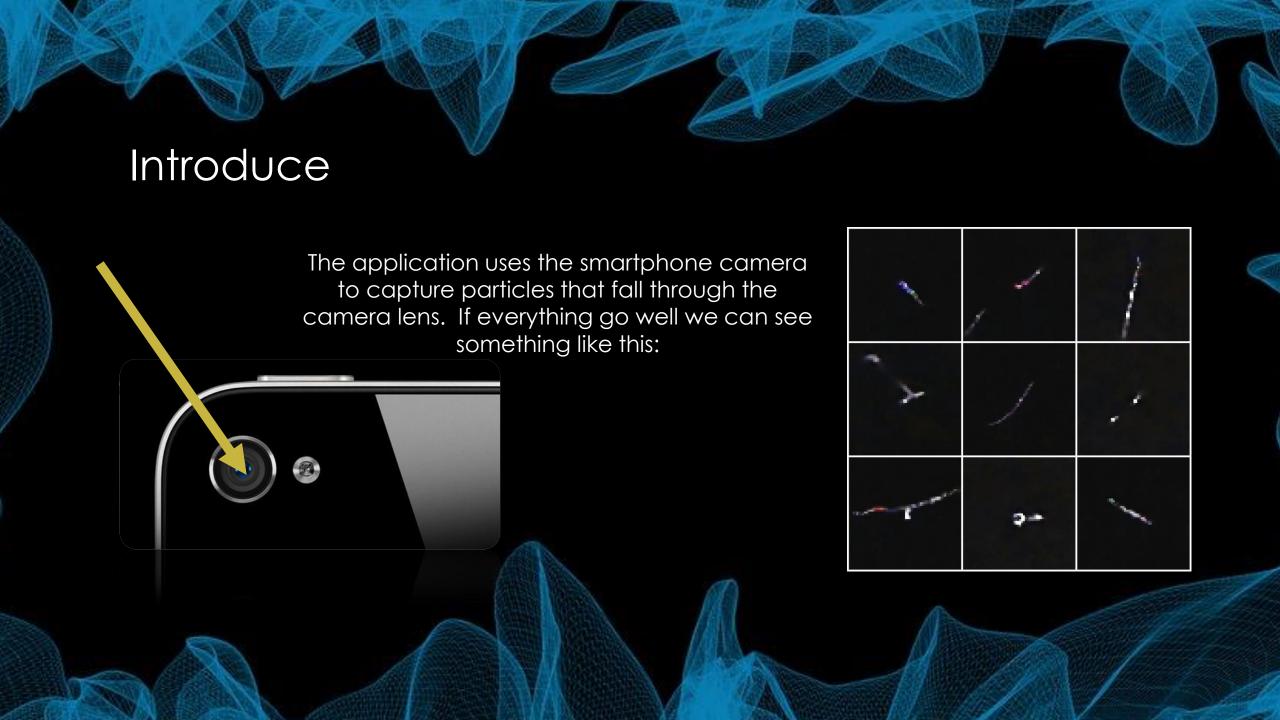
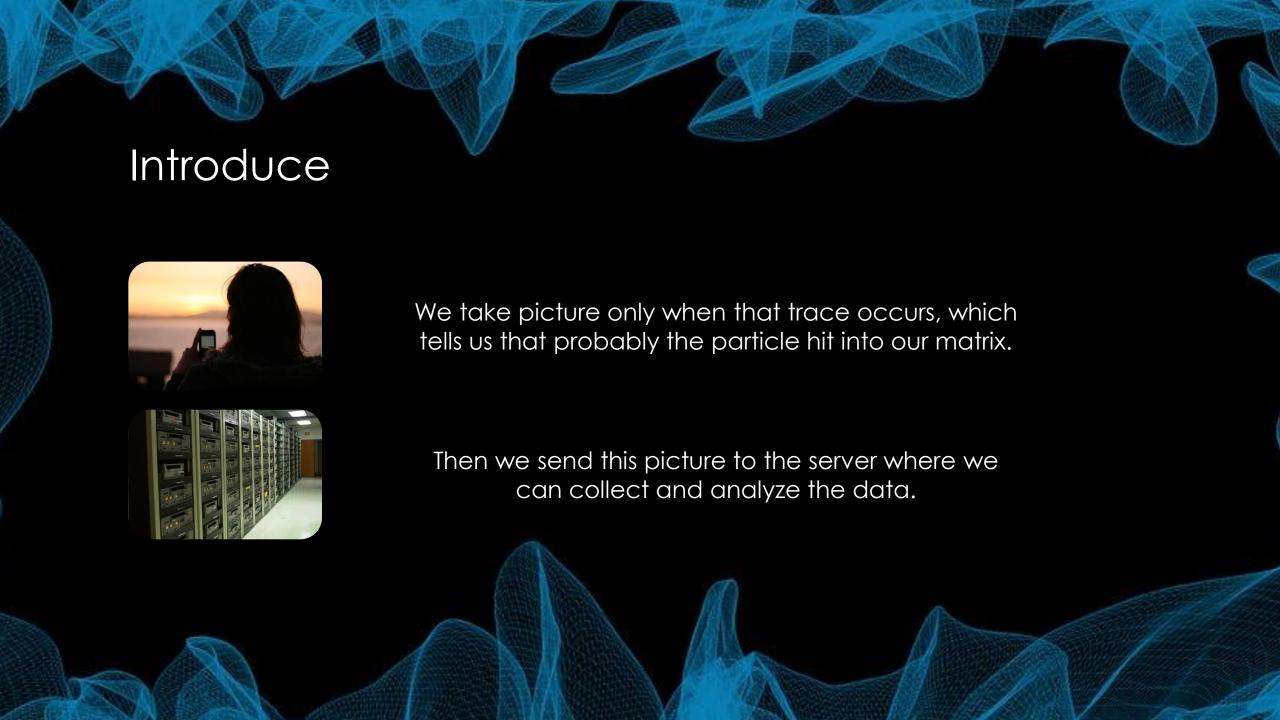
CREDO Detector and other mobile applications

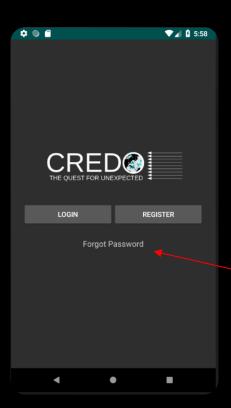
ALEKSANDER ĆWIKŁA, MICHAŁ NIEDŹWIECKI Cracow university of technology MARTA MAREK







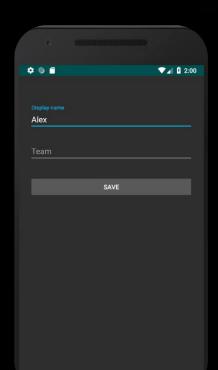
Login / Register



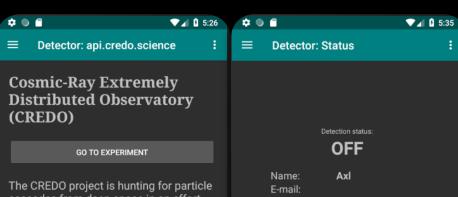
We need to register to use the app.

We can change our display name later in Menu.

Best friend button for most of us







Team:

Working time: 0:00:00

Detections last 10 days:

0

START DETECTION!

Even if you are not expert in IT or nuclear physics, you know how to launch app.

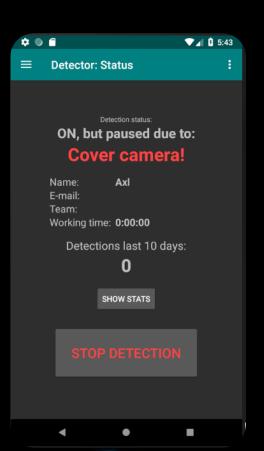
The CREDO project is hunting for particle cascades from deep space in an effort to answer some of the fundamental questions about our Universe. Your particle detections will feed directly into this pioneering new area of scientific research. You can also engage in the analysis of the detections that you, your fellow citizen scientists and professional observatories from around the world are making though the Dark Universe Welcome experiment.

To learn more please visit the CREDO website at:

https://api.credo.science/

In this app we don't want to change easy thing into hard. A lot of data and information can be overwhelming for new users.

Clear information



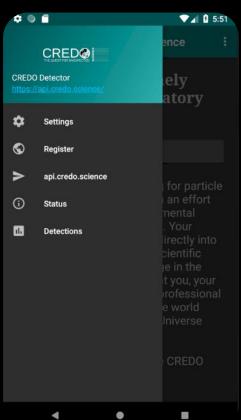
If something go wrong, we will inform user about it with clear short information.

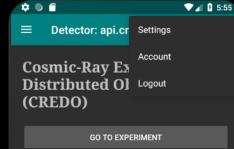
But... we have stats for nerd too

Just click "show stats" and app show parameters of work









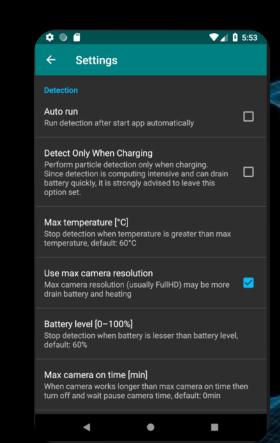
The CREDO project is hunting for particle cascades from deep space in an effort to answer some of the fundamental questions about our Universe. Your particle detections will feed directly into this pioneering new area of scientific research. You can also engage in the analysis of the detections that you, your fellow citizen scientists and professional observatories from around the world are making though the Dark Universe Welcome experiment.

To learn more please visit the CREDO website at:

https://api.credo.science

This is still a normal app, so we have things like sliding menu and settings.

Big things can look casual.



Does it make it difficult to use your smartphone?



Every action in smartphone generate heat, so detection will stop when temperature reach sp limit. Of course user can modify this in settings.



And if everything go great, temperature is perfect, user want use smartphone and ... no battery?

Not in this app! Detection is going to work only if we have more than battery level limit we set in settings.

Does it make it difficult to use your smartphone?

App can work in the background and we have plenty of option to personalise when it should work:

- Auto start when the smartphone is charging
- Auto start after launching app
- Turn on/off detection after certain amount of time
- User can also manually start and stop

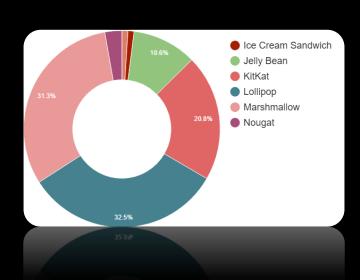


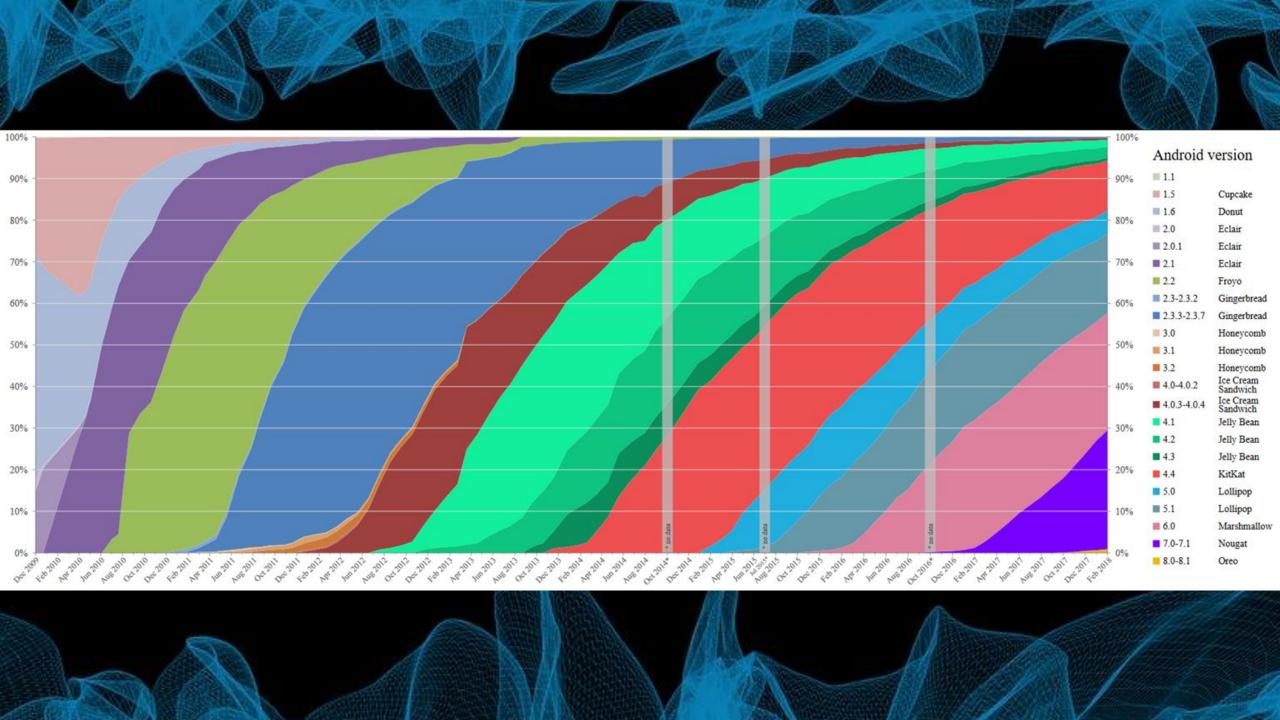


What if I have an old smartphone?

Our application can be run on android version 4.0 (Ice cream sandwich) or higher.

Today it means that almost 100% of device can run it.





Internet cost, little space in memory...

Despite of the development of technology, there will always be someone who complain and search for cons.

For that reason we optimized our application. Now when hit occur, we cut only little fragment from photo. By this trick we decrease the amount of transferred data.

For more comfort of using application, we give options to choose the way of connecting to the server.

- WiFi + Cellular network
- WiFi only



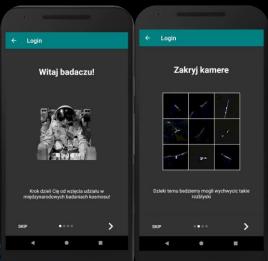


Multiple language

Jesteśmy dostępni w kilku językach! We are available in several language! Nous sommes disponibles dans plusieurs langues! Log.d("Credo","Android");



Our team test every release so if this version need a fix, we can do this without interrupting all devices.







Other Applications

			-DT-DAMES	
	CREDO (The Cosmic Ray Extremely Distributed Observatory)	DECO (Distributed Electronic Cosmic-ray Observatory)	CRAYFIS	Cosmic Ray App
System:	Android • Available on Google Play Store	Android • Beta (available only on site) iOS • In closed test	 Android Closed Beta, available only on site (now they don't accept new beta-testers) iOS Coming soon for closed beta-testers 	iOS • Available on Apple App Store
Detection:	Checks bright on camera preview, if it's go above limit, we take pictures.	Record camera image every 1-2s and analyze it to determine bright pixels.	No available date	Takes long exposure pictures periodically ~2 per second.
Gallery	Gallery in app and on website	On website	No available date	On website
Others		To work properly you need two application DECO app and Deco the data logger.		

Team

After creating account, user can join in to the team.

On our page - api.credo.science - you can find the last caught particle and enjoy rankings.

Development



In the future for better encouragement of the users, we can make ranks and prize for some milestone. For example:

- Best person get title "Albert Einstein"
- Benefit in other app



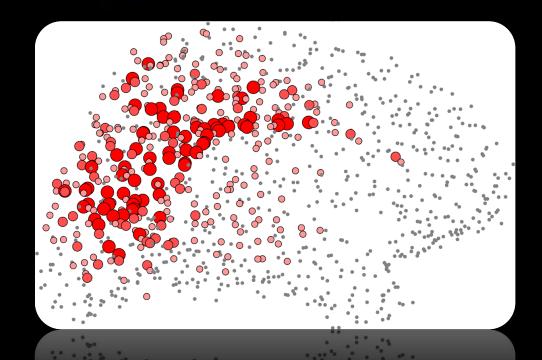
Many people stop using the phone at a particular time of a day and for most of us, the day is cyclical. We can use it to create more universal tool.



- Scanning during inactivity
- Automatic scanning at a given time

Development

- 2/3D Map with the density of hits
- Skins for user
- Application for other mobile systems



We have many ideas about this project and a lot of it are waiting for the invention.

