Computer methods in dosimetry.

Science club CAMAC from department of physics WUT of which I am a member is working on radon concentration map on the university campus. I am responsible for developing a data processing system. My presentation is about my solutions in CAMAC research.

Common trend to care about radiology dangers is the reason for increase amount of measurements in dosimetry. This causes the need to develop system that can improve data processing, visualization and also reduce the time for this operations.

Modern methods in dosimetry create lot of data that need to be shown in straightforward way for public view. In case of CAMAC research is needed to make map of radon concentration based on CR39 radon detectors.

Solution to this problem is website with interactive map that can show actual radon concentration. Website is only visible part of system that collect and process data.

My pleasure is to present shell scripts, program and website that make this possible. Those tools compute, upload and visualize data based on our algorithms and also google API. This system have many possibilities to upgrade for other applications and may interest researchers for usage in their research.

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