

International Muon Week 2017

Worldwide Cosmic Ray Flux Study

March 13-17, 2017

Join us!

Is the cosmic ray flux the same all over the world? Let's find out!

During International Muon Week (IMW), participants share data worldwide. By sharing data in this way, we are developing a detector research community and connecting students around the world. Participants collect and analyze data and share results on a Google map. We pair schools to facilitate student discussion. We encourage students to ask questions about shared data and how other schools participate in our cosmic ray studies community. Join us in the sixth annual International Muon Week!

Map of 2014 Participants

REGISTRATION

To register, fill out the electronic form below. It's short and important. From the registrations we create an international map showing participating sites.

Registration form: <https://goo.gl/forms/YnrBuZyKJ2jQ82C53>

DATA COLLECTION

Leading up to March 13, verify your detector operation. Test that your hardware is running and collecting data.

Collect flux data during the week of March 13-17. It is not necessary to collect data all the time, if that is not feasible. Some data are preferable to none.

For our experiment procedure, we need similar experimental conditions. We ask all users to place their detector counters in a stacked configuration directly on top of each other with no distance between the counters. If you have four counters, please set up the analysis for three-fold coincidence.

For QuarkNet users, cosmic ray muon detector (CRMD) help is available in the Cosmic Ray e-Lab at the Help Desk (upper right of e-Lab web page, looks like a life ring, <https://www.i2u2.org/elab/cosmic/teacher/forum/HelpDeskRequest.php>).

QuarkNet CRMD users should use the following DAQ commands to configure their detector DAQ:
ST 3 5 → report channel count status, 5-minute interval
WC 00 2F → set three-fold coincidence (The two digits in the middle are zeros, by the way.)
SA 1 → save configuration

Have the counters stacked directly on top of each other. Don't forget to update your CRMD geometry.