

# Going Deep on Spallation Backgrounds

John Beacom, Ohio State University

## **Abstract:**

Cosmic-ray muons break nuclei ("spallation"), producing neutrons and beta-decaying nuclei, which are backgrounds for a variety of underground experiments on neutrinos, dark matter, and neutrinoless double beta decay. We have developed a powerful new method, of general applicability, to identify and reject these backgrounds. This has the same effect as putting the detector deeper underground.

## **Papers (click the blue link below):**

[http://inspirehep.net/search?ln=en&ln=en&p=find+a+beacom+and+a+li+and+t+spallation&of=hb&action\\_search=Search&sf=earliestdate&so=d&rm=&rg=25&sc=0](http://inspirehep.net/search?ln=en&ln=en&p=find+a+beacom+and+a+li+and+t+spallation&of=hb&action_search=Search&sf=earliestdate&so=d&rm=&rg=25&sc=0)