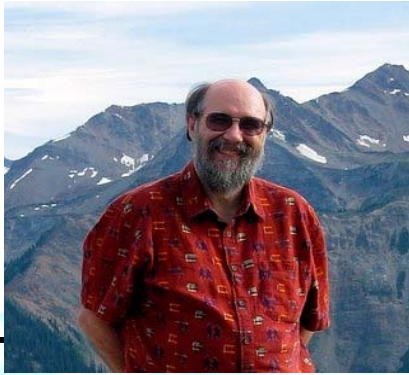


Imaging the Universe in a Bucket of

Water

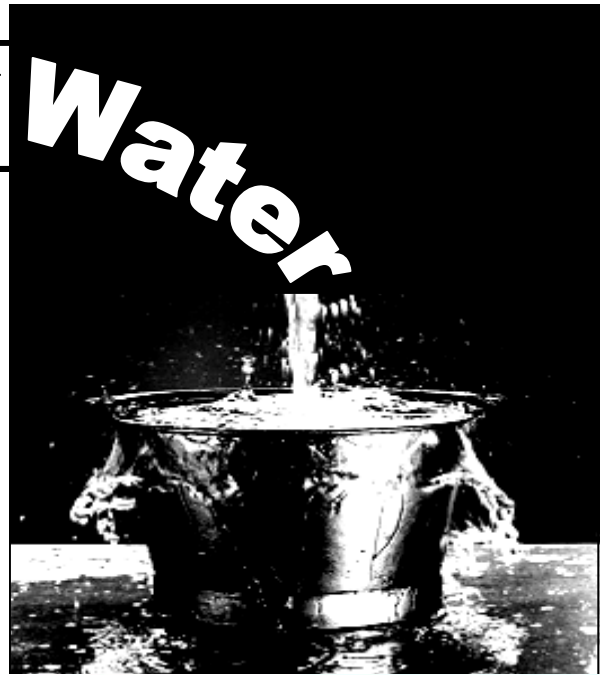
October 29, 2009



Dr. Jim Linnemann

MICHIGAN STATE
UNIVERSITY

4:00pm
Brace Lab 211
Refreshments:
3:30pm,
Brace Lab 201



Cosmic radiation was discovered in 1912, but its origins are not yet fully explicated.

I will report of recent measurements by the Milagro collaboration of two component of this cosmic radiation: photons with 1 TeV (or more) energy, and the much more copious charged particles of similar energies. Since photons travel in straight lines from their source, one can do astronomy with these rare photons, to learn about the sources of such radiation. I will also discuss a potential follow-up project, HAWC (High Altitude Water Cherenkov).

Physics & Astronomy Fall 2009 Colloquium