

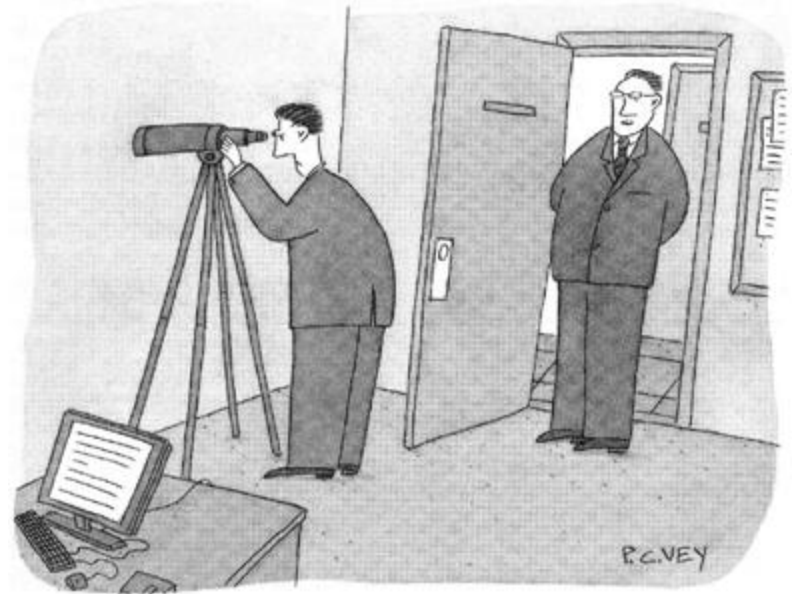
Physics Colloquium

Monday, October 25 at 4:30

Wean Hall 7500, Coffee at 4:15

“Shining Light Through a Wall:
Laser Searches for New Physics
with *GammeV* at Fermilab ”

(William Wester, Fermilab)



New physics has been observed through dark matter and dark energy although we do not know the nature of these phenomenon. There are a number of theoretical ideas such as new "Weakly Interacting Massive Particles" (WIMPs) that might indeed account for dark matter. A new possibility of "Weakly Interacting Slim Particles" (WISPs) will be discussed along with small laser experiments at Fermilab that have already probed interesting regions of parameter space. It turns out that our technology might also allow for a new probe sensitive to a possible jitter in space-time itself due to Planck-scale effects. Who knows, but maybe such crazy experimental tests might reveal a weirdness that happens to be the true nature of the universe.