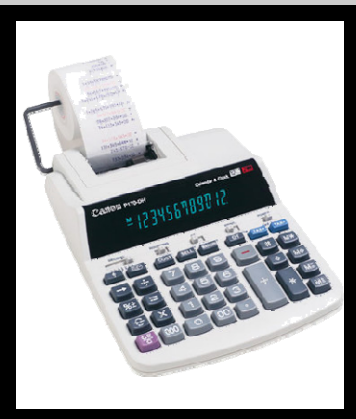


Physics & Astronomy

2009 Fall Colloquium

GIGABIT, TERAVOLT, PETABYTE



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When I was a young postdoc, some years ago, I learned that there was a conference series called "Computing in High Energy Physics." When I heard that, the first thought that popped into my head was, "Shoot me if I ever go there." But sure enough, there I was presenting at CHEP in 2007, and I'm still in good enough health to give the colloquium. What happened in between? Computing has become an integral part of particle physics experiments. The amount of data recorded, the volume of data processing that must take place, and the number of people who will access the data has grown to such a scale that computing systems require careful design and operational attention. Fortunately, new technologies have emerged that make these problems easier to address. I will discuss these issues in the context of the Compact Muon Solenoid experiment at the Large Hadron Collider, with a focus on the physics issues that drive the computing needs, and the role of the computing cluster operated by UNL in the experiment.

**Thursday,
27 August 2009**

Refreshments: 3:30 pm,
Brace 201

Lecture: 4:00 pm, Brace
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