

November 12–13, 2009

# gpu@bu

## Exploiting a disruptive technology for scientific computing

An X-ray image of the "Fermi" GPU die from Nvidia.

## Launch workshop for the NSF-funded Experimental GPU cluster for fundamental physics

organized by Lorena Barba, Richard Brower, Michael Clark (Harvard), Claudio Rebbi

Today, computational science is offered the prospect of vast increases in capability, thanks to a **paradigm shift** in hardware architectures. The IT industry, faced with a number of bottlenecks (memory, power, complexity), has opted for on-chip parallelism.

One of the most exciting new trends is harnessing the power of graphics processors (GPUs) for scientific computing. Many argue that it is the most exciting development in the last 15 years (since the debut of the Beowulf cluster).

This workshop is motivated by the question: *Where does this take us in scientific computing?*

### Speakers, Thursday Nov. 12

Richard Edgar, Harvard University  
Tsuyoshi Hamada, Nagasaki University  
Andreas Klockner, Brown University  
David Luebke, Nvidia  
Hanspeter Pfister, Harvard University  
Nicolas Pinto, MIT

... plus the organizers

### Tutorial, Friday Nov. 13

"CPU/GPU programming with CUDA"

### More information:

<http://barbagroup.bu.edu/gpuatbu/>



Center for Computational Science