

SLAC Site Report

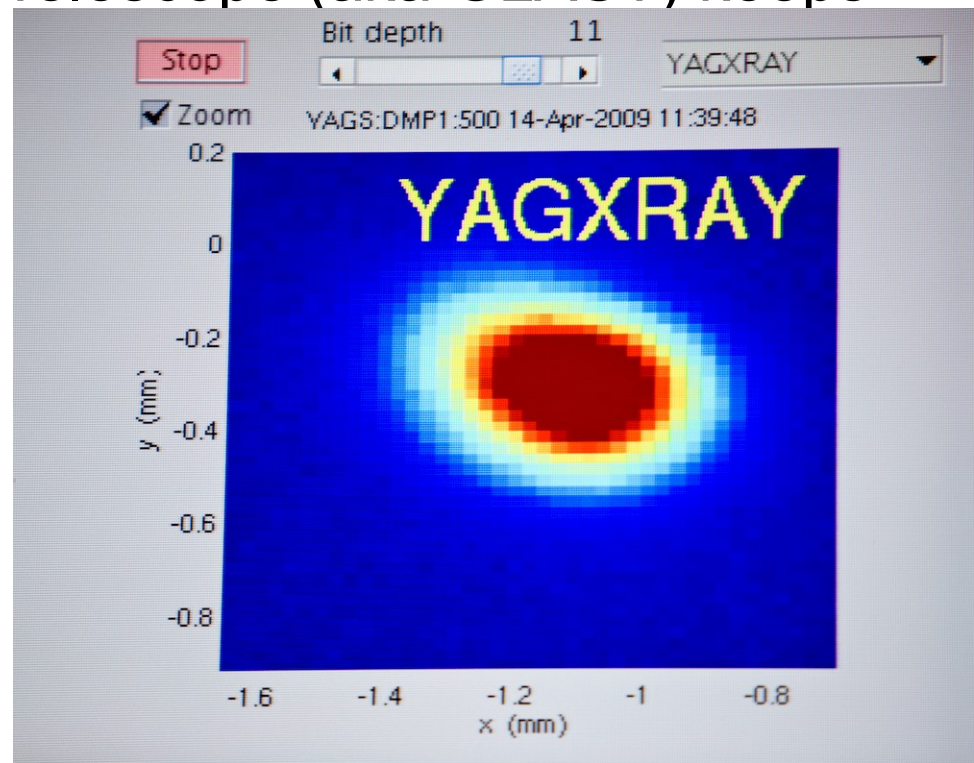
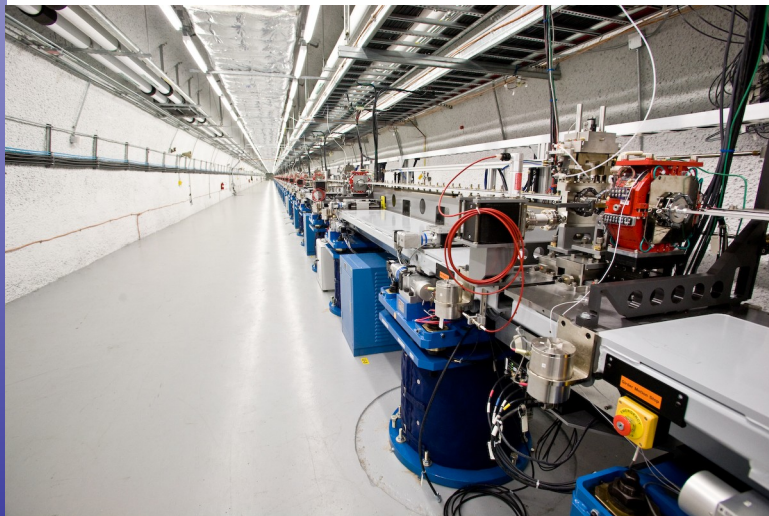
Alf Wachsmann
SLAC National Accelerator Laboratory

alfw@slac.stanford.edu



- LCLS produced the first laser X-rays on April 10, 2009
1.5 Ångstrom; 12 undulators (of 33); factor of 2.3 each
- Funding for all 6 hutches has been granted which allows accelerated construction
- Fermi Gamma-Ray Space Telescope (aka GLAST) keeps doing strong science

LCLS Undulator Hall



- New acting CFO: Susan Calandra (former Stanford University controller)
- Business Services Division will be integrated into Finance Department
- New buzz phrase at SLAC: “Partner of Choice”

- SCCS:
 - Still no new CIO/Director
 - Only filled with temporary person (Steffen Luitz)
 - Chuck's position still filled only temporarily (Randy Melen)
 - Randy's position still filled only temporarily (A. Wachsmann)

- LCLS online computing system is coming along
- BaBar will replace all old storage arrays and a significant number of old compute nodes
 - This will free up quite a bit of rack space and electrical power
- Tom Devereaux (SIMES) has now Infiniband installed in his 64 nodes
- Todd Martinez (PULSE) has purchased 100 more compute nodes (ROCKS)
 - Will buy ~50 more machines with GPUs next FY

- BaBar has ejected ~4100 tapes from Powderhorn silos; maybe some 3500 more to come
 - Long term storage?
- Old SGI Altix about to be replaced
 - This group got a “free” old Cray but has no power for it at Stanford Campus
- Second Sun/STK SL8500 in production now
- HPSS Upgrade Project is well on the way
 - Solaris → Linux
 - Disk caches (SAN3P)
 - HPSS version 5.1 → 6.2.3
- Lustre:
 - 33TB heavily used instance at KIPAC; recently upgraded
 - LCLS will use it for data transfer online → offline

- Pilot project for patching Windows desktops with BigFix (www.BigFix.com)
 - Maybe later also for Apple desktops
- Mandatory online Cyber Security class for every computer user at SLAC
- Xrootd
 - Its use is spreading
 - Formal workgroup to be formed
- ATLAS analysis facility: R. Mount still working on this
- SC'09 exhibit booth again with Stanford University