SVN commits

- Constantinos architecture committed
  - A lot of changes!
  - But should be backward-compatible
  - Last bugfix committed ~1 hour ago
  - In principle, it is ready for general use
    - In practice, only I have the banks
- Requiring a hit in b-layer no longer hardcoded:
  - REQUIRE_FIRST template variable

Results for CM arch

- 8L allows 1 missing plane + does usual recovery if 8/8 fails chi2
  - Chi2 unoptimized: using the one from 11L
- 4L also allows 1 missing plane (not SCTtrk)
  - In total, final 11L can have two missing planes
    - One in pixels, one in SCT
- In all cases, central-only banks!
- A complicated table below summarizes # fits and efficiencies for WH @ 10^34 for default, SS-shifted, and CM architectures

Best case to date

	Default large	SS_large_bank	Default small	CM (HW8=0)	CM (HW8=1)	comments
11L bank						
SS	50x64x144	50x64x144	50x64x144			
# central patt/reg	32M	32Mx2	10M			
8L bank						
SS				SS=32 strips	SS=32 strips	
# central patt/reg				1.7M	1.7M	
4L bank						
SS				Phi=25, eta=36	Phi=25, eta=36	+SCTtrk split
# central patt/reg				0.5M	0.5M	
WH @ 10^34 performance (200 events, # fits is for the worst region - #1)						
Primary trk eff	75.9%	74.9%	72.0%	77.9%	74.4%	
Muon eff	88.1%	87.1%	82.2%	90.0%	89.6%	+8L fits:
# fits (total)	10.6M	1.8M	950k	57k	8k	+38k
# 11/11 fits	1M	180k	440k	400	290	+5k
# 10/11 fits (rds)				53k	5k	+4k
# 10/11 fits (rec)	9.6M	1.6M	510k	4k	3k	+29k

fits in 4L/11L (second stage)

fits in 8L (first stage)