Dehector gerfermance Statue Reviewk

Nicolo de Groot - RAL

Some excuses

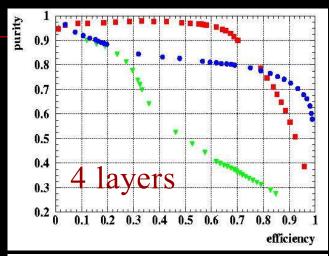
- Then there were two ... Pascal Gay has been trapped in funding bureaucracy, Mark Thomson absent for family reasons.
- Tools in Limbo. The only thing I partly trust is Brahms. It is hard to get students and post-docs to work on a system that should disappear in a year in an obsolete language

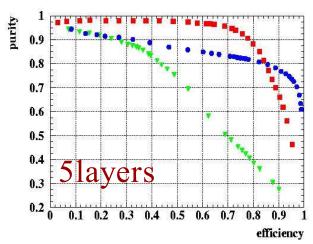
What we should be doing

- Energy flow Pascal's favourite
- Tracking Silicon vs TPC, TPC + SET vs TPC only
- Flavour ID Beampipe radius
- Particle ID electron, muon, dE/dx

Beampipe Radius

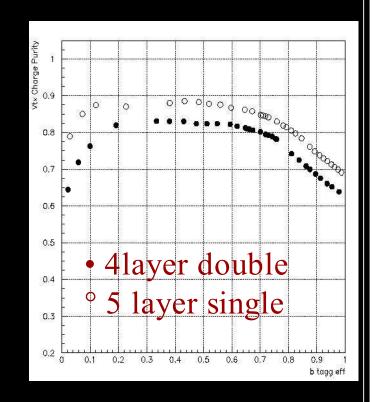
- With current tools no noticeable difference – J. Brau
- •~25% reduction in c-tagging efficiency (T.Kuhl, NdG)
- •Often the performance difference is masked by other issues (tracking, jet finding)
- •Analyses now underway (A. Finch, T. Kuhl, P. Luzniak, G.Gaycken)





Quark charge

- See A. Bertls talk
- 90% purity possible for charged B's,70% for neutral B's, VXD alone
- What can we gain from electrons, muons? Combined?



SLD Ab example

The way forward

- A usable simulation reconstruction analysis framework
- Development of tool frameworks
 - Compare algorithms see Mitaroff's talk
 - Bring different detectors together
- Meet more regularly (phone/person)
- Focus on specific tasks.
- Lot of new effort