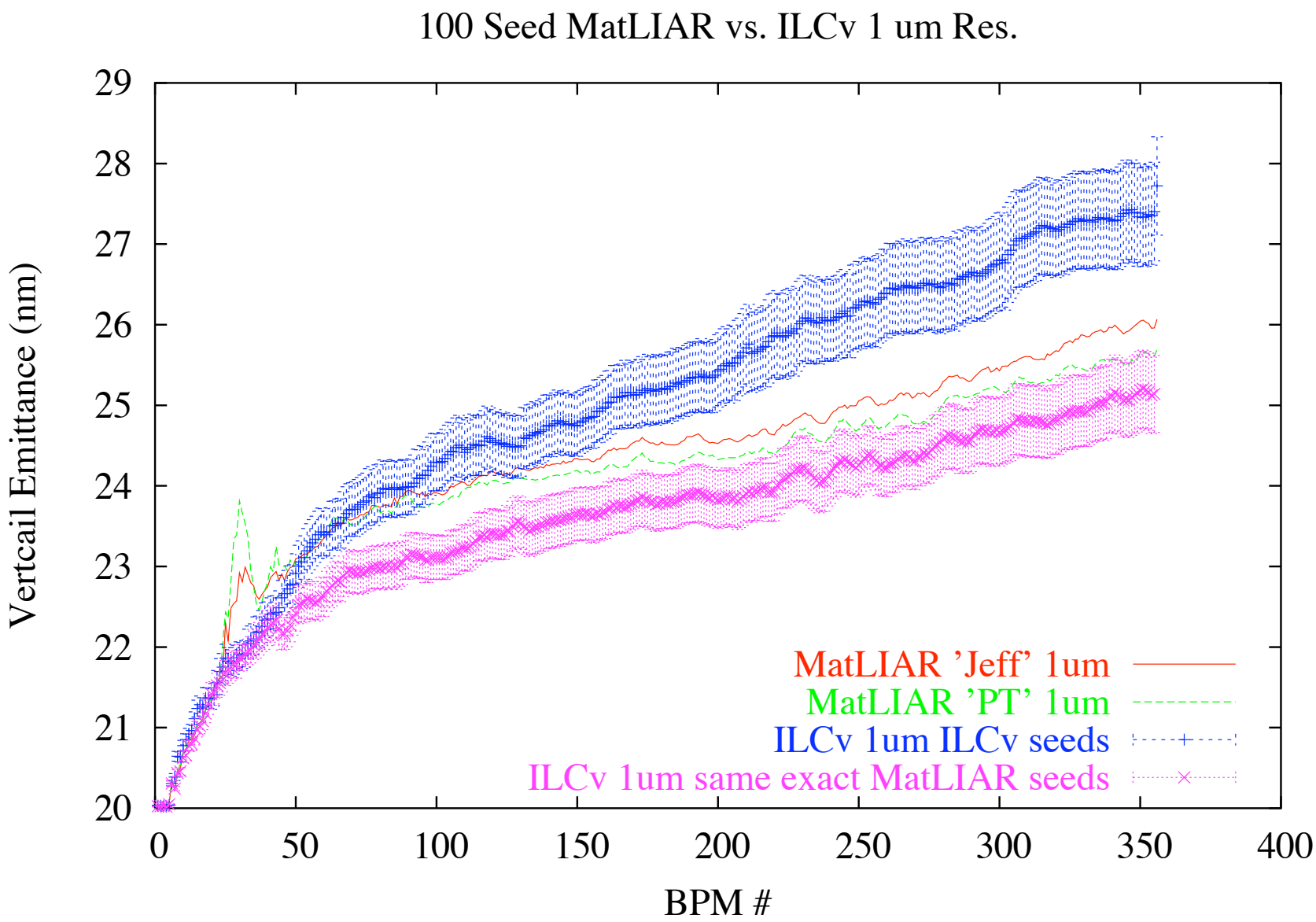
Short Update on Benchmarking

GDE Accelerator Physics videoconference meeting

Jeff Smith, Peter Tenenbaum and Kiyoshi Kubo
June 8th, 2006

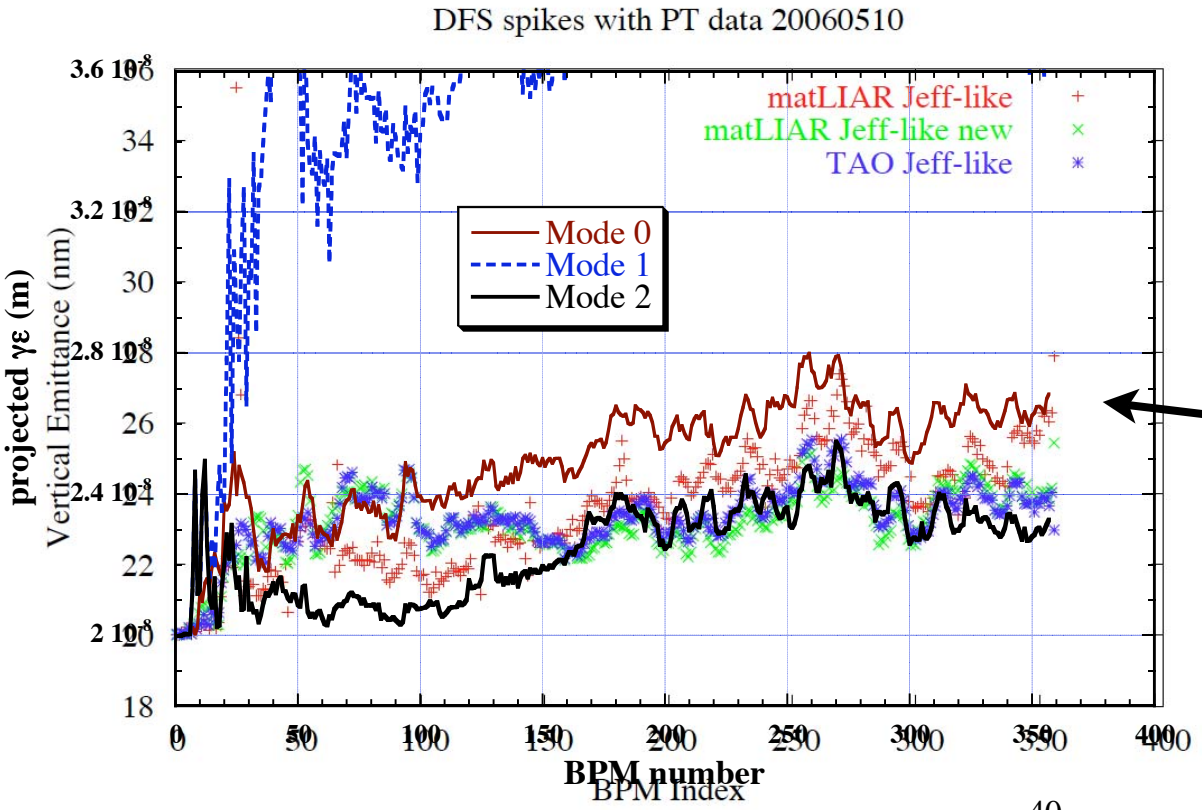
- Much progress on careful comparisons between MatLIAR DFS and ILCv DFS (see PT's talk)
  - One more thing... We should use the same 100 random seeds in our comparisons



SLEPT vs. ILCv

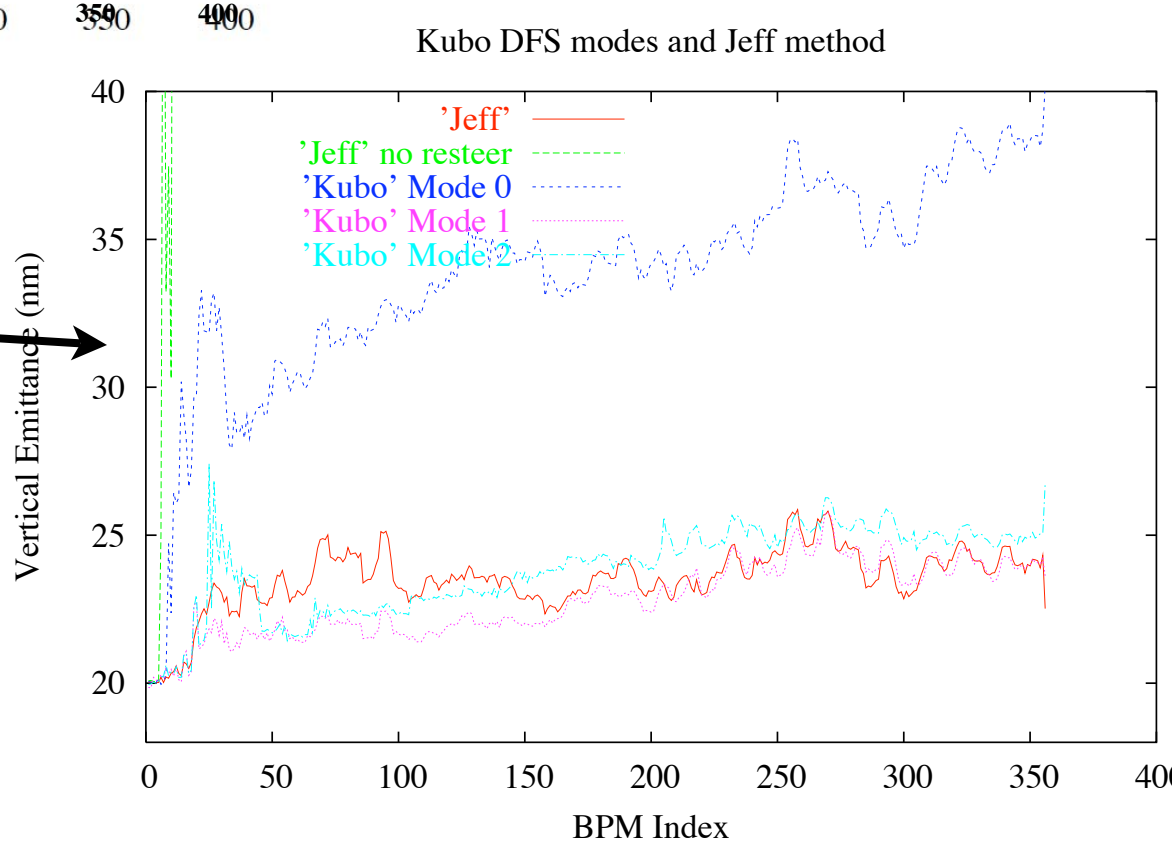
- Kiyoshi Kubo has three "modes" of DFS.
- He changes the energy by scaling all cavities by a constant value versus turning off an appropriate set of cavities (like MatLIAR and ILCv)
- Resteering method is a little different different
- Implemented his three modes in ILCv

Kubo modes in SLEPT and ILCv with canonical seed



Kubo Modes via SLEPT (compared with ILCv data)

Kubo Modes via ILCV (compared with two "Jeff" modes)



Conclusion: Some differences but Mode 2 behaves similarly between codes and with "Jeff" mode

100 seeds

Again, mode 2 agrees very well with "Jeff" mode.