

# Discussion with LW (G.A.Blair)

LW people interested in any dynamical effects that affect the transverse profile within the ILC bunch train.

- Any variations in transverse size, which may require either intra-train scanning, or train-by-train scanning with intra-train bunch tagging via timing.
- Any effects that change the gaussian shape of the bunch. This determines to what extent we need to deconvolve the bunch distribution as opposed to simply assuming a gaussian bunch.

The result in our paper basically showed that **there are no such effects**, apart from the **shift in the vertical centroid** due to bunch-to-bunch interactions. This was for a "perfect" beam - it would be good to have a **set of bunches under non-ideal ILC conditions** and then see if we can reconstruct the cause of the problem using laser-wire measurements.

See TUPC005 Simulation Study of Laser-wires as a Post-linac Diagnostic for CLIC and ILC

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