

# Small Detector Tracking Cost Estimates

## Silicon Drift Estimate:

Scaling from experience gained with STAR vertex detector (Bellwied)

## Silicon Strip (barrel and disks) Estimate:

SDC WBS Data Book, October 1992; plus updates for inflation and to reflect current technology

Estimates attempt to include full costs of R&D, integration, management, etc.

WBS items for detector subsystems do not include electronics, which we interpreted to mean even the mechanical 'hybrid' structures on which the electronics resides.

Additional, 'non-WBS' items (electronics) are included for guidance.

# S Tracker Costs - Further Notes

For silicon  $\mu$ strip tracker, two poles were considered:

- Long-shaping (superior momentum resolution at low  $p_{\perp}$ )
- Short-shaping (background immunity)

L and S disk systems identical at this level of accuracy

- Each consists of 10 disks
- Total area: 6.0 m<sup>2</sup> (L) vs. 6.9 m<sup>2</sup> (S)

## BOTTOM LINE (K\$)

	Drift	Long $\mu$ strip	Short $\mu$ strip	Disk
WBS	19550	17550	19650	9050
Elec.	13250	6000	20250	7050