Tracking for B Factories

Table 5: Parameters of B-Factory Chambers

	BaBar	Belle	CLEOIII
# Layers	40	50	47
R_{in}/R_{out} (mm)	250/790	80/870	120/800
Wire diameter (μm)	20/120,80	30/126	20/110
Lever Arm (mm)	540	790	680
Length (mm)	2764	2200/2380	2220/2370
Cell Size	12×18	16×16	14×14
Cell Type	'2:1' Hex	3:1 Square	3:1 Square
Cathodes	None	3 inner	1 outer
# Stereo Layers	24	14	31
Stereo angle (mrad)	45-70	40-70	20-30
B Field	1.5 T	1.5 T	1.5 T
Gas: Helium with	20% Butane	50% Ethane	40% Propane
Silicon	5 layer	4 layer	4 layer
Silicon radius (mm)	32-144	28-48	25-100
Inner Wall X/X_0	0.28%	0.25%(?)	0.15%
Endplate thick. (mm)	24/12	10	15
Acceptance $\cos(\theta)$	-0.97,0.88	-0.94,0.90	-0.93, 0.93