

(a)	Inning	$z^i$			$x^i$		
0		speed	$\theta$	$\phi$	speed	$\theta$	$\phi$
		81	0.1	0.1	81.4	0.2	0.1
		91	0.3	0.4	91.8	0.3	0.3
		92	0.4	0.2	92.3	0.4	0.2
		97	0.3	0.1	97	0.2	0.1
1		speed	$\theta$	$\phi$	speed	$\theta$	$\phi$
		81	0.1	0.1	81.4	0.2	0.1
		91	0.3	0.4	91.8	0.3	0.3
		92	70	90	0	0	0
		200	0.1	0.1	0	0	0

(b)	Event	$z^i$				$x^i$			
0		momentum	$\theta$	$\phi$	particle	momentum	$\theta$	$\phi$	particle
		5	24	0	1	4.8	23.7	0.3	1
		0.5	30	180	2	0.5	30.2	179.8	2
		2	15	170	3	1.9	15.5	170.4	3
		2	15	172	3	2.1	15.4	172.2	3
1		momentum	$\theta$	$\phi$	particle	momentum	$\theta$	$\phi$	particle
		5	24	0	1	4.8	23.8	0.1	1
		0.5	30	180	2	0.5	30.2	179.7	2
		2	15	170	3	0	0	0	0
		2	15	172	3	2.1	15.4	172.2	9