	BESI	BESII
MDC momentum resolution	$\sigma_p/p = 2.0\%\sqrt{1+p^2}$	$\sigma_p/p = 1.7\%\sqrt{1+p^2}$
TOF time resolution	$\sigma_t = 369 \quad ps$	$\sigma_t = 175 \quad ps$
BSC energy resolution	$\sigma_E/E = 25.0\%/\sqrt{E}$	$\sigma_E/E = 22.9\%/\sqrt{E}$
BSC position resolution	$\sigma_x =$ —	$\sigma_x = 0.28 \quad cm$
	$\sigma_y =$ —	$\sigma_y = 0.28 \quad cm$
	$\sigma_x =$ —	$\sigma_x = 2.9 \quad cm$
Vertex position resolution	$\sigma_{x_0} = 0.09 \quad cm$	$\sigma_{x_0} = 0.13 \quad cm$
	$\sigma_{y_0} = 0.10 \quad cm$	$\sigma_{y_0} = 0.13 \quad cm$
	$\sigma_{z_0} = 3.8 \quad cm$	$\sigma_{z_0} = 2.7 \quad cm$
dE/dx uncorrected pulse height	$\sigma_{ph}/ph = 10.8\%$	$\sigma_{ph}/ph = 8.4\%$
dE/dx corrected pulse height	$\sigma_{ph}/ph = 7.9\%$	$\sigma_{ph}/ph = 8.4\%$

Table 1: **Comparison of the main resolutions of the BESI and BESII sub-detectors, obtained from the old J/ψ data and new J/ψ data run13751-13769 with same codes.**

		Bhabha	Dimuon
Preminary vertex	$x_0(cm)$	0.18 ± 0.13	0.18 ± 0.13
	$y_0(cm)$	-0.12 ± 0.13	-0.12 ± 0.13
	$z_0(cm)$	0.23 ± 2.75	0.25 ± 2.84
	$r_0(cm)$	$0.22 + 0.14$	$0.22 + 0.14$
MDC	$p^+(GeV/c)$	1.540 ± 0.048	1.549 ± 0.050
	$p^-(GeV/c)$	1.541 ± 0.048	1.548 ± 0.047
	Hits(mean value)	33.12	31.15
TOF	T(ns)(mean value)	4.61	4.17
	$tof_{exp} - tof_{cal}(ns)$	0.008 ± 0.175	-0.018 ± 0.198
	$T_1 - T_2(ns)$	0.001 ± 0.219	0.009 ± 0.242
BSC	$E(GeV)$	1.517 ± 0.282	0.218 ± 0.047
	$x_{DC} - x_{SC}(cm)$	—	0.029 ± 0.285
	$y_{DC} - x_{SC}(cm)$	—	0.130 ± 0.282
	$z_{DC} - x_{SC}(cm)$	—	0.01 ± 2.87
Muon Identifier	$x_{DC} - x_{Mu}(cm)$	—	0.04 ± 4.53
	$y_{DC} - y_{Mu}(cm)$	—	0.09 ± 5.02
	$z_{DC} - z_{Mu}(cm)$	—	1.30 ± 9.82
	v residual	—	0.046 ± 1.220
	z residual	—	0.181 ± 1.321
dE/dx	phmp8	1014 ± 88	758 ± 75
	phmp11	1288 ± 108	962 ± 92
	Hits(mean value)	33.63	31.98
	xs	0.371 ± 0.951	-0.073 ± 0.928

Table 2: **Form the new J/ψ data run13751-13769, the status of the BESII sub-detectors is obtained through some simple fits.**