	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	$\sigma_t = 369 \quad ps$	$\sigma_t = 177 \quad ps$
BSC energy resolution	$\sigma_E/E = 25.0\%/\sqrt{E}$	$\sigma_E/E = 23.1\%/\sqrt{E}$
BSC position resolution	$\sigma_x = —$ $\sigma_y = —$ $\sigma_x = —$	$\sigma_x = 0.28 \quad cm$ $\sigma_y = 0.28 \quad cm$ $\sigma_x = 3.1 \quad cm$
Vertex position resolution	$\sigma_{x_0} = 0.09 \quad cm$ $\sigma_{y_0} = 0.10 \quad cm$ $\sigma_{z_0} = 3.8 \quad cm$	$\sigma_{x_0} = 0.13 \quad cm$ $\sigma_{y_0} = 0.13 \quad cm$ $\sigma_{z_0} = 2.8 \quad cm$
dE/dx uncorrected pulse height	$\sigma_{ph}/ph = 10.8\%$	$\sigma_{ph}/ph = 8.8\%$
dE/dx corrected pulse height	$\sigma_{ph}/ph = 7.9\%$	$\sigma_{ph}/ph = 8.3\%$

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 run13770-13800 with same codes.**

		Bhabha	Dimuon
Preminary vertex	$x_0(cm)$	0.19 ± 0.13	0.18 ± 0.13
	$y_0(cm)$	-0.12 ± 0.13	-0.12 ± 0.13
	$z_0(cm)$	0.23 ± 2.78	0.19 ± 2.82
	$r_0(cm)$	0.23 ± 0.14	0.22 ± 0.14
MDC	$p^+(GeV/c)$	1.539 ± 0.050	1.547 ± 0.051
	$p^-(GeV/c)$	1.541 ± 0.046	1.549 ± 0.049
	Hits(mean value)	33.17	31.51
TOF	T(ns)(mean value)	4.60	4.17
	$tof_{exp} - tof_{cal}(ns)$	-0.009 ± 0.177	-0.014 ± 0.199
	$T_1 - T_2(ns)$	0.001 ± 0.220	-0.008 ± 0.250
BSC	$E(GeV)$	1.514 ± 0.285	0.215 ± 0.046
	$x_{DC} - x_{SC}(cm)$	—	0.027 ± 0.287
	$y_{DC} - x_{SC}(cm)$	—	0.120 ± 0.282
	$z_{DC} - x_{SC}(cm)$	—	-0.308 ± 3.10
Muon Identifier	$x_{DC} - x_{Mu}(cm)$	—	0.052 ± 4.56
	$y_{DC} - y_{Mu}(cm)$	—	0.049 ± 4.96
	$z_{DC} - z_{Mu}(cm)$	—	1.34 ± 9.81
	v residual	—	0.067 ± 1.228
	z residual	—	0.190 ± 1.327
dE/dx	phmp8	1040 ± 91	777 ± 78
	phmp11	1292 ± 108	966 ± 91
	Hits(mean value)	33.63	32.07
	xs	0.397 ± 0.957	-0.063 ± 0.927

Table 2: **Form the new J/ψ data run13770-13800, the status of the BESII sub-detectors is obtained through some simple fits.**