Results of the efficiency study are broken down in to three categories

1. acceptance from PISA (Table 1)
2. acceptance $\times$ efficiency for Run 3 d-Au (Table 2)
3. acceptance $\times$ efficiency for Run 3 p-p (Table 3)

processing step	cuts	# events Thrown	$1.2 < y_{J/\psi} < 2.4$ # events	%	$-2.2 < y_{J/\psi} < -1.2$	%
PYTHIA		200,000	37,451	18.7%	33,178	16.6%
$z_{\rm vtx} = 0$	2μ w/ E$\geq$2		10416	5.2%	7783	3.9%
PISA(raw PYTHIA)	$\lvert z\rvert \leq 38$	133,738	25,050	18.7%	22,214	16.6%
w/ $z_{\rm vtx}$ $\sigma = 39$cm	$\lvert z\rvert \leq 38$ & 2μ w/ E$\geq$2	in $\lvert z\rvert \leq 38$	6,983	5.2%	5,206	3.9%
PISA	2μ w/ E$\geq$2 & 1 hit in each station	200,000	5,658	2.8%	4,671	2.3%
reconstruction perfect detector	$2.65 < M < 3.73$, ghost rejection $\lvert z\rvert \leq 38$, reconstructed $y_{J/\psi}$	33,382 in $\lvert z\rvert \leq 38$	806	2.4%	704	2.1%

Table 1: J/ψ acceptance results from PISA. "PISA (raw PYTHIA)" means PYTHIA primary particle input with the z value of the vertex smeared into a Gaussian. The row "PISA" includes hit information in the chamber. The reconstruction efficiencies included here are for J/ψs thrown in 4π.

processing step	cuts	# events in $1.2 < y_{J/\psi} < 2.4$ Thrown	reconstructed	%	# events in $-2.2 < y_{J/\psi} < -1.2$ Thrown	reconstructed	%
reconstruction perfect detector	$2.65 < M < 3.73$, ghost rejection $\lvert z\rvert \leq 38$, reconstructed $y_{J/\psi}$	6,358	806	12.7%	5,485	704	12.8%
reconstruction for run # 79863	MuTr HV disabled only	6,358	743	11.7%	5,485	645	11.8%
reconstruction for run # 79863	HV disabled, d-Au tube effic. $2.65 < M < 3.73$, ghost rejection $\lvert z\rvert \leq 38$, reconstructed $y_{J/\psi}$	25,050	2297	9.2%	22,214	1440	6.5%
reconstruction and trigger for run # 79863	pseudo-trigger$\geq$1D1S HV disabled, d-Au tube effic. $2.65 < M < 3.73$, ghost rejection $\lvert z\rvert \leq 38$, reconstructed $y_{J/\psi}$	25,050	1925	7.7%	22,214	999	4.5%
reconstruction and trigger for run # 79863	pseudo-trigger$\geq$2deep HV disabled, d-Au tube effic. $2.65 < M < 3.73$, ghost rejection $\lvert z\rvert \leq 38$, reconstructed $y_{J/\psi}$	25,050	1427	5.7%	22,214	560	2.5%
embedding in d-Au HIJING for run # 79863	pseudo-trigger$\geq$1D1S HV disabled, d-Au tube effic. $2.65 < M < 3.73$, ghost rejection $\lvert z\rvert \leq 38$, reconstructed $y_{J/\psi}$	6,358	487	7.7%	5,485	256	4.7%
embedding in d-Au data							

Table 2: J/ψ Acceptance $\times$ efficiency results at various stages of processing for Run3 d-Au conditions. The reconstruction efficiencies are for J/ψs thrown in the North or South rapidities with $|z| \leq 38$.

processing step	cuts	# events in $1.2 < y_{J/\psi} < 2.4$ Thrown	reconstructed	%	# events in $-2.2 < y_{J/\psi} < -1.2$ Thrown	reconstructed	%
reconstruction perfect detector	$2.65 < M < 3.73$, ghost rejection $\|z\| \leq 38$, reconstructed $y_{J/\psi}$	6,358	806	12.7%	5,485	704	12.8%
reconstruction for run # 87791	HV on						
reconstruction for run # 87791	HV disabled, p-p tube effic. $2.65 < M < 3.73$, ghost rejection $\|z\| \leq 38$, reconstructed $y_{J/\psi}$	25,050	1924	7.7%	22,214	1006	4.5%
reconstruction and trigger for run # 87791	pseudo-trigger$\geq$1D1S HV disabled, p-p tube effic. $2.65 < M < 3.73$, ghost rejection $\|z\| \leq 38$, reconstructed $y_{J/\psi}$	25,050	1305	5.2%	22,214	471	2.1%
reconstruction and trigger for run # 87791	pseudo-trigger$\geq$2deep HV disabled, p-p tube effic. $2.65 < M < 3.73$, ghost rejection $\|z\| \leq 38$, reconstructed $y_{J/\psi}$	25,050	881	3.5%	22,214	241	1.1%
embedding in p-p data for run # 87791	pseudo-trigger$\geq$1D1S HV disabled, p-p tube effic. $2.65 < M < 3.73$, ghost rejection $\|z\| \leq 38$, reconstructed $y_{J/\psi}$	6,358	339	5.3%	5,485	123	2.2%

Table 3: J/ψ Acceptance $\times$ efficiency results at various stages of processing for Run3 p-p conditions. The reconstruction efficiencies are for J/ψs thrown in the North or South rapidities with $|z| \leq 38$.