Inputs:

CMSSM parameters				
m_0	$m_{1/2}$	A_0	$tan\beta$	$sign(\mu)$
InP%m0	InP%mhalf	InP%a0	InP%tanb	InP%sgnmu0

Nuisance parameters			
m_t	$m_b(mb)^{\bar{M}S}$	$\alpha_{em}^{-1}(mZ)$	$\alpha_s(mZ)$
InN%mtop	InN%mbottom	InN%alphamz	InN%alphasmz

Outputs:

Relic Density	
$\Omega_\chi h^2$	gaugino fraction
DM_out%oh2	DM_out%gf

Direct Detection Cross Sections (pb)		
σ_p^{SI}	σ_n^{SI}	σ_N^{SI}
DD_out%sigsip	DD_out%sigsin	DD_out%sigsi_nuc

Collider Observables		
BR($\bar{B} \to X_s\gamma$)	sign(MSSM/SM)	BR($B_s \to \mu^+\mu^-$)
Colder_out%bsgamma	Colder_out%sgn_MSSMoSM	Colder_out%brbsmm
Δa_μ^{SUSY}	m_W	$sin^2\theta_{eff}$
Colder_out%gm2amp	Colder_out%mW	Colder_out%sw2eff
Δm_s		
Bdecay%delMB		

Higgs masses (GeV)			
h	H	A	$H^\pm$
Spect%mlh	Spect%mhh	Spect%mA	Spect%mhc

Charginos and Neutralinos masses (GeV)					
$\chi_1^{\pm}$	$\chi_2^{\pm}$	χ_1^0	χ_2^0	χ_3^0	χ_4^0
Spect%mch1	Spect%mch2	Spect%mneut1	Spect%mneut2	Spect%mneut3	Spect%mneut4

Sleptons masses (GeV)					
$\tilde{e}_R$	$\tilde{e}_L$	$\tilde{\mu}_R$	$\tilde{\mu}_L$	$\tilde{\tau}_1$	$\tilde{\tau}_2$
Spect%mseR	Spect%mseL	Spect%msmuR	Spect%msmuL	Spect%mstau1	Spect%mstau2

Sneutrino masses (GeV)		
$\tilde{\nu_e}$	$\tilde{\nu_\mu}$	$\tilde{\nu_\tau}$
Spect%msne	Spect%msnmu	Spect%msntau

Sup Quarks masses (GeV)					
$\tilde{u}_R$	$\tilde{u}_L$	$\tilde{c}_R$	$\tilde{c}_L$	$\tilde{t}_1$	$\tilde{t}_2$
Spect%msuR	Spect%msuL	Spect%mscR	Spect%mscL	Spect%mst1	Spect%mst2

Sdown Quarks masses (GeV)					
$\tilde{d}_R$	$\tilde{d}_L$	$\tilde{s}_R$	$\tilde{s}_L$	$\tilde{b}_1$	$\tilde{b}_2$
Spect%msdR	Spect%msdL	Spect%mssR	Spect%mssL	Spect%msb1	Spect%msb2

Gluino mass	Spect%mgluino

Mixing Parameters (GeV)				
μ	X_t	X_b	$tan2\,\theta_t$	$tan2\,\theta_b$
soft%mu	X_t	X_b	tan_2thetat	tan_2thetab

Indirect Detection:

Halo model dependent quantities are arrays in which each element corresponds to a halo model. The halo models used are set in the SampleIniFile.ini file. The quantities (ie neutrino telescopes) and units (ie gamma fluxes) can vary depending on what is set in the SampleIniFile.ini file. For instance instead of muon fluxes one can get neutrino fluxes, etc.

Gamma-ray Fluxes Parameters	
$d\Phi_\gamma/dE\,(GeV^{-1}cm^{-2}s^{-1}sr^{-1})$	$\Phi_\gamma\,(cm^{-2}s^{-1}sr^{-1})$
DSO%ID%fluxgadiff(hm)	DSO%ID%fluxgac(hm)
$\Phi_{\gamma\gamma}\,(cm^{-2}s^{-1}sr^{-1})$	$\Phi_{Z\gamma}\,(cm^{-2}s^{-1}sr^{-1})$
DSO%ID%fluxgaga(hm)	DSO%ID%fluxgaz(hm)

Antimatter Fluxes Parameters	
$d\Phi_{\bar{p}}/dE\,(GeV^{-1}cm^{-2}s^{-1}sr^{-1})$	$d\Phi_{\bar{d}}/dE\,(GeV^{-1}cm^{-2}s^{-1}sr^{-1})$
DSO%ID%phipb(hm)	DSO%ID%phidb(hm)
$d\Phi_{e^+}/dE\,(GeV^{-1}cm^{-2}s^{-1}sr^{-1})$	$\Phi_{e^+}/(\Phi_{e^+}+\Phi_{e^-})$
DSO%ID%phiep(hm)	DSO%ID%phiep_frac(hm)

Neutrino Telescopes Rates	
$d\Phi_\mu^{sun}/dE\,(GeV^{-1}Km^{-2}yr^{-1}deg^{-1})$	$d\Phi_\mu^{ea}/dE\,(GeV^{-1}Km^{-2}yr^{-1}deg^{-1})$
DSO%ID%ratesudiff(hm)	DSO%ID%rateeadiff(hm)
$\Phi_\mu^{sun}\,(Km^{-2}yr^{-1})$	$\Phi_\mu^{ea}\,(Km^{-2}yr^{-1})$
DSO%ID%ratesu(hm)	DSO%ID%rateea(hm)
$d\Phi_\mu^{ha}/dE\,(GeV^{-1}Km^{-2}yr^{-1}sr^{-1})$	$\Phi_\mu^{ha}\,(Km^{-2}yr^{-1}sr^{-1})$
DSO%ID%phimuhalodiff(hm)	DSO%ID%phimuhalo(hm)

$\langle\sigma v\rangle$	DSO%ID%sigmav

E_{bin}	DSO%ID%E

Higgs Production:

$q\bar{q} \to Wh \to b\bar{b}$ **(TEV)**	
$\sigma(q\bar{q} \to Wh)_{MSSM}$	$[\sigma(q\bar{q} \to Wh) \times BR(h \to b\bar{b})]_{MSSM}$
Prodxbr_out%Wh%sigma_Tev(1)	Prodxbr_out%Wh%bbar_Tev(1)
$\sigma(q\bar{q} \to Wh)_{SM}$	$[\sigma(q\bar{q} \to Wh) \times BR(h \to b\bar{b})]_{SM}$
Prodxbr_out%Wh%sigmaSM_Tev(1)	Prodxbr_out%Wh%bbarSM_Tev(1)
$[\sigma \times BR(h \to b\bar{b})]_{MSSM}/[\sigma \times BR(h \to b\bar{b})]_{SM}$	
prodxbr_out%Wh%bbar_Tev_r(1)	

$q\bar{q} \to Zh \to b\bar{b}$ **(TEV)**	
$\sigma(q\bar{q} \to Zh)_{MSSM}$	$[\sigma(q\bar{q} \to Zh) \times BR(h \to b\bar{b})]_{MSSM}$
Prodxbr_out%Zh%sigma_Tev(1)	Prodxbr_out%Zh%bbar_Tev(1)
$\sigma(q\bar{q} \to Zh)_{SM}$	$[\sigma(q\bar{q} \to Zh) \times BR(h \to b\bar{b})]_{SM}$
Prodxbr_out%Zh%sigmaSM_Tev(1)	Prodxbr_out%Zh%bbarSM_Tev(1)
$[\sigma \times BR(h \to b\bar{b})]_{MSSM}/[\sigma \times BR(h \to b\bar{b})]_{SM}$	
prodxbr_out%Zh%bbar_Tev_r(1)	

$b\bar{b} \to h \to b\bar{b}$ **(TEV)**	
$\sigma(b\bar{b} \to h)_{MSSM}$	$[\sigma(b\bar{b} \to h) \times BR(h \to b\bar{b})]_{MSSM}$
Prodxbr_out%bbh%sigma_Tev(1)	Prodxbr_out%bbh%bbar_Tev(1)
$\sigma(b\bar{b} \to h)_{SM}$	$[\sigma(b\bar{b} \to h) \times BR(h \to b\bar{b})]_{SM}$
Prodxbr_out%bbh%sigmaSM_Tev(1)	Prodxbr_out%bbh%bbarSM_Tev(1)
$[\sigma \times BR(h \to b\bar{b})]_{MSSM}/[\sigma \times BR(h \to b\bar{b})]_{SM}$	
prodxbr_out%bbh%bbar_Tev_r(1)	

$gg \to h$ **(TEV)**	
$\sigma(gg \to h)_{MSSM}$	$\sigma(gg \to h)_{SM}$
Prodxbr_out%ggh%sigma_Tev(1)	Prodxbr_out%ggh%sigmaSM_TeV(1)

$bg \to bh$ **(TEV)**	
$\sigma(bg \to bh)_{MSSM}$	$\sigma(bg \to bh)_{SM}$
Prodxbr_out%bh%sigma_Tev(1)	Prodxbr_out%bh%sigmaSM_TeV(1)

$gg \to h \to \gamma\gamma$ **(LHC)**	
$\sigma(gg \to h)_{MSSM}$	$[\sigma(gg \to h) \times BR(h \to \gamma\gamma)]_{MSSM}$
Prodxbr_out%ggh%sigma_LHC(1)	Prodxbr_out%ggh%gamgam_LHC(1)
$\sigma(gg \to h)_{SM}$	$[\sigma(gg \to h) \times BR(h \to \gamma\gamma)]_{SM}$
Prodxbr_out%ggh%sigmaSM_LHC(1)	Prodxbr_out%ggh%gamgamSM_LHC(1)
$[\sigma \times BR(h \to \gamma\gamma)]_{MSSM}/[\sigma \times BR(h \to \gamma\gamma)]_{SM}$	
prodxbr_out%ggh%gamgam_LHC_r(1)	

$qq \to tth \to b\bar{b}$ **(LHC)**	
$\sigma(qq \to tth)_{MSSM}$	$[\sigma(qq \to tth) \times BR(h \to b\bar{b})]_{MSSM}$
Prodxbr_out%tth%sigma_Tev(1)	Prodxbr_out%tth%bbar_Tev(1)
$\sigma(qq \to tth)_{SM}$	$[\sigma(qq \to tth) \times BR(h \to b\bar{b})]_{SM}$
Prodxbr_out%tth%sigmaSM_Tev(1)	Prodxbr_out%tth%bbarSM_Tev(1)
$[\sigma \times BR(h \to b\bar{b})]_{MSSM}/[\sigma \times BR(h \to b\bar{b})]_{SM}$	
prodxbr_out%tth%bbar_Tev_r(1)	

$qq \to VVh \to \tau\tau$ **(LHC)**	
$\sigma(qq \to VVh)_{MSSM}$	$[\sigma(qq \to VVh) \times BR(h \to \tau\tau)]_{MSSM}$
Prodxbr_out%qqh%sigma_Tev(1)	Prodxbr_out%qqh%tautau_Tev(1)
$\sigma(qq \to VVh)_{SM}$	$[\sigma(qq \to VVh) \times BR(h \to \tau\tau)]_{SM}$
Prodxbr_out%qqh%sigmaSM_Tev(1)	Prodxbr_out%qqh%tautauSM_Tev(1)
$[\sigma \times BR(h \to \tau\tau)]_{MSSM}/[\sigma \times BR(h \to \tau\tau)]_{SM}$	
prodxbr_out%qqh%tautau_Tev_r(1)	

$bg \to bh$ **(LHC)**	
$\sigma(bg \to bh)_{MSSM}$	$\sigma(bg \to bh)_{SM}$
Prodxbr_out%bh%sigma_LHC(1)	Prodxbr_out%bh%sigmaSM_LHC(1)

Higgs Branching Ratios	
$BR(h \to b\bar{b})_{MSSM}$	$BR(h \to b\bar{b})_{SM}$
prodxbr_out%branch%BRtobbar(1)	prodxbr_out%branch%BRtobbarSM(1)
$BR(h \to \gamma\gamma)_{MSSM}$	$BR(h \to \gamma\gamma)_{SM}$
prodxbr_out%branch%BRtogamgam(1)	prodxbr_out%branch%BRtogamgamSM(1)
$BR(h \to \tau\tau)_{MSSM}$	$BR(h \to \tau\tau)_{SM}$
prodxbr_out%branch%BRtotautau(1)	prodxbr_out%branch%BRtotautauSM(1)
$BR(h \to WW^*)_{MSSM}$	$BR(h \to WW^*)_{SM}$
prodxbr_out%branch%BRtoWW(1)	prodxbr_out%branch%BRtoWWSM(1)

Higgs Decay Widths	
$\Gamma(h \to b\bar{b})_{MSSM}$	$\Gamma(h \to b\bar{b})_{SM}$
prodxbr_out%gamma%BRtobbar(1)	prodxbr_out%gamma%BRtobbarSM(1)
$\Gamma(h \to \gamma\gamma)_{MSSM}$	$\Gamma(h \to \gamma\gamma)_{SM}$
prodxbr_out%gamma%BRtogamgam(1)	prodxbr_out%gamma%BRtogamgamSM(1)
$\Gamma(h \to \tau\tau)_{MSSM}$	$\Gamma(h \to \tau\tau)_{SM}$
prodxbr_out%gamma%BRtotautau(1)	prodxbr_out%gamma%BRtotautauSM(1)
$\Gamma(h \to WW)_{MSSM}$	$\Gamma(h \to WW)_{SM}$
prodxbr_out%gamma%BRtoWW(1)	prodxbr_out%gamma%BRtoWWSM(1)