Particles

Contents

Particles

In this documentation all particles which are defined as global GTopp objects are listed. Via these objects you have access to the particle properties. (See also definition of classes GTopp and Topp). These objects are also available in CINT.

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Names

extern GTopp **dquark** *d-Quark*

extern GTopp **dquark_bar** *$\bar{d}$-Quark*

extern GTopp **uquark** *u-Quark*

extern GTopp **uquark_bar** *$\bar{u}$-Quark*

extern GTopp **squark** *s-Quark*

extern GTopp **squark_bar** *$\bar{s}$-Quark*

extern GTopp **cquark** *c-Quark*

extern GTopp **cquark_bar** *$\bar{c}$-Quark*

extern GTopp **bquark** *b-Quark*

extern GTopp **bquark_bar** *$\bar{c}$-Quark*

extern GTopp **tquark** *t-Quark*

extern GTopp **tquark_bar** *$\bar{t}$-Quark*

extern GTopp **lquark** *l-Quark*

extern GTopp **lquark_bar** *$\bar{l}$-Quark*

extern GTopp **hquark** *h-Quark*

extern GTopp **hquark_bar** *$\bar{h}$-Quark*

extern GTopp

nu ν *Neutrino*

extern GTopp
e_minus e^- *Elektron*

extern GTopp
e_plus e^+ *Positron*

extern GTopp
nu_e ν_e *Elektron-Neutrino*

extern GTopp
nu_e_bar $\bar{\nu}_e$ *Anti-Elektron-Neutrino*

extern GTopp
mu_minus μ^- *Muon*

extern GTopp
mu_plus μ^+ *Muon*

extern GTopp
nu_mu ν_μ *Muon-Neutrino*

extern GTopp
nu_mu_bar $\bar{\nu}_\mu$ *Anti-Muon-Neutrino*

extern GTopp
tau_minus τ^- *Tau-Lepton*

extern GTopp
tau_plus τ^+ *Tau-Lepton*

extern GTopp
nu_tau ν_τ *Tau-Neutrino*

extern GTopp
nu_tau_bar $\bar{\nu}_\tau$ *Anti-Tau-Neutrino*

extern GTopp
chi_minus χ^-

extern GTopp
chi_plus χ^+

extern GTopp
nu_chi ν_χ

extern GTopp
nu_chi_bar $\bar{\nu}_\chi$

extern GTopp
gluon g *Gluon*

extern GTopp
photon γ *Photon*

extern GTopp

	Z	*Z Boson*
extern GTopp		
	W_plus	*W^+ Boson*
extern GTopp		
	W_minus	*W^- Boson*
extern GTopp		
	Higgs	*h Higgs-Boson*
extern GTopp		
	Reggeon	*Reggeon*
extern GTopp		
	Pomeron	*Pomeron*
extern GTopp		
	Z_prime	*Z' Boson*
extern GTopp		
	Z_prime_prime	*Z'' Boson*
extern GTopp		
	W_prime_plus	*W'^+ Boson*
extern GTopp		
	W_prime_minus	*W'^- Boson*
extern GTopp		
	Higgs2	*h_2 Higgs*
extern GTopp		
	Higgs3	*h_3 Higgs*
extern GTopp		
	Higgs_plus	*h^+ Higgs*
extern GTopp		
	Higgs_minus	*h^- Higgs*
extern GTopp		
	eta_tech	*η_{tech} Technicolor?*
extern GTopp		
	LQ_ue	*LQ_{ue} LeptoQuark?*
extern GTopp		
	LQue_bar	*$\bar{LQ}$ Anti-LeptoQuark?*
extern GTopp		
	R	*R*
extern GTopp		
	R_bar	*$\bar{R}$*
extern GTopp		

specflav

extern GTopp
rndmflav

extern GTopp
rndmflav_bar

extern GTopp
phasespa *Phasespace*

extern GTopp
c_minushadron c*-Hadron*

extern GTopp
c_minushadron_bar
$\bar{c}$*-Hadron*

extern GTopp
b_minushadron b*-Hadron*

extern GTopp
b_minushadron_bar
$\bar{b}$*-Hadron*

extern GTopp
t_minushadron t*-Hadron*

extern GTopp
t_minushadron_bar
$\bar{t}$*-Hadron*

extern GTopp
l_minushadron l*-Hadron*

extern GTopp
l_minushadron_bar
$\bar{l}$*-Hadron*

extern GTopp
h_minushadron h*-Hadron*

extern GTopp
h_minushadron_bar
$\bar{h}$*-Hadron*

extern GTopp
Wvirt_plus W^+_{virt} *virtual W-Boson*

extern GTopp
Wvirt_minus W^-_{virt} *virtual W-Boson*

extern GTopp

diquark *Di-Quark*

extern GTopp
diquark_bar *Anti-Di-Quark*

extern GTopp
dd_1

extern GTopp
dd_1_bar

extern GTopp
ud_0

extern GTopp
ud_0_bar

extern GTopp
ud_1

extern GTopp
ud_1_bar

extern GTopp
uu_1

extern GTopp
uu_1_bar

extern GTopp
sd_0

extern GTopp
sd_0_bar

extern GTopp
sd_1

extern GTopp
sd_1_bar

extern GTopp
su_0

extern GTopp
su_0_bar

extern GTopp
su_1

extern GTopp
su_1_bar

extern GTopp
cluster

extern GTopp

pdtstring

extern GTopp
indep

extern GTopp
CMshower

extern GTopp
SPHEaxis

extern GTopp
THRUaxis *Thrust-Axis*

extern GTopp
CLUSjet

extern GTopp
CELLjet

extern GTopp
glueball *Glueball*

extern GTopp
pidiffr_plus *diffractive* π^+

extern GTopp
pidiffr_minus *diffractive* π^-

extern GTopp
pi_zero π^0 *Meson*

extern GTopp
pi_plus π^+ *Meson*

extern GTopp
pi_minus π^- *Meson*

extern GTopp
eta η^0 *Meson*

extern GTopp
rho_zero ρ^0 *Meson*

extern GTopp
rho_plus ρ^+ *Meson*

extern GTopp
rho_minus ρ^- *Meson*

extern GTopp
omega ω *Meson*

extern GTopp
eta_prime η' *Meson*

extern GTopp

	f_0	f_0
extern	GTopp	
	a_0_zero	a_0^0
extern	GTopp	
	a_0_plus	a_0^+
extern	GTopp	
	a_0_minus	a_0^-
extern	GTopp	
	phi	ϕ *Meson*
extern	GTopp	
	h_1	h_1
extern	GTopp	
	b1235_1_zero	$b(1235)_1^0$
extern	GTopp	
	b1235_1_plus	$b(1235)_1^+$
extern	GTopp	
	b1235_1_minus	$b(1235)_1^-$
extern	GTopp	
	a_1_zero	a_1^0
extern	GTopp	
	a_1_plus	a_1^+
extern	GTopp	
	a_1_minus	a_1^-
extern	GTopp	
	f_2	f_2
extern	GTopp	
	f_1	f_1
extern	GTopp	
	eta1295	$\eta(1295)$
extern	GTopp	
	f1300_0	$f(1300)_0$
extern	GTopp	
	pi1300_zero	$\pi(1300)^0$
extern	GTopp	
	pi1300_plus	$\pi(1300)^+$
extern	GTopp	
	pi1300_minus	$\pi(1300)^-$
extern	GTopp	

	a_2_zero	a_2^0
extern	GTopp	
	a_2_plus	a_2^+
extern	GTopp	
	a_2_minus	a_2^-
extern	GTopp	
	f_prime_0	f_0'
extern	GTopp	
	f_prime_1	f_1'
extern	GTopp	
	f1420_1	$f(1420)_1$
extern	GTopp	
	o1420	$o(1420)$
extern	GTopp	
	eta1440	$\eta(1440)$
extern	GTopp	
	rho1450_zero	$\rho(1450)^0$
extern	GTopp	
	rho1450_plus	$\rho(1450)^+$
extern	GTopp	
	rho1450_minus	$\rho(1450)^-$
extern	GTopp	
	f1510_prime_1	$f(1510)_1'$
extern	GTopp	
	f_prime_2	f_2'
extern	GTopp	
	f1590_0	$f(1590)_0$
extern	GTopp	
	omega1600	$\omega(1600)$
extern	GTopp	
	omega3	ω_3
extern	GTopp	
	pi_2_zero	π_2^0
extern	GTopp	
	pi_2_plus	π_2^+
extern	GTopp	
	pi_2_minus	π_2^-
extern	GTopp	

h_prime_1 h'_1

extern GTopp
rho_3_zero ρ_3^0

extern GTopp
rho_3_plus ρ_3^+

extern GTopp
rho_3_minus ρ_3^-

extern GTopp
rho1700_zero $\rho(1700)^0$

extern GTopp
rho1700_plus $\rho(1700)^+$

extern GTopp
rho1700_minus $\rho(1700)^-$

extern GTopp
phi_3 ϕ_3

extern GTopp
f2010_2 $f(2010)_2$

extern GTopp
f2050_4 $f(2050)_4$

extern GTopp
f2300_2 $f(2300)_2$

extern GTopp
f2340_2 $f(2340)_2$

extern GTopp
K_zero K^0

extern GTopp
K_bar $\bar{K}^0$

extern GTopp
K_plus K^+

extern GTopp
K_minus K^-

extern GTopp
K_L K_L *K-long*

extern GTopp
K_S K_S *K-short*

extern GTopp
K_star_zero K^{*0}

extern GTopp

K_star_bar $\bar{K}^{*\,0}$

extern GTopp
K_star_plus $K^{*\,+}$

extern GTopp
K_star_minus $K^{*\,-}$

extern GTopp
K1270_1_zero $K(1270)_1^0$

extern GTopp
K1270_1_bar $\bar{K}(1270)_1^0$

extern GTopp
K1270_1_plus $K(1270)_1^+$

extern GTopp
K1270_1_minus $K(1270)_1^-$

extern GTopp
K1400_1_zero $K(1400)_1^0$

extern GTopp
K1400_1_bar $\bar{K}(1400)_1^0$

extern GTopp
K1400_1_plus $K(1400)_1^+$

extern GTopp
K1400_1_minus $K(1400)_1^-$

extern GTopp
K1410_star_zero
$K^{*\,0}(1410)$

extern GTopp
K1410_star_bar $\bar{K}^{*\,0}(1410)$

extern GTopp
K1410_star_plus
$K^{*\,+}(1410)$

extern GTopp
K1410_star_minus
$K^{*\,-}(1410)$

extern GTopp
K1430_0_star_zero
$K^{*\,0}(1430)_0$

extern GTopp

K1430_0_star_bar $\bar{K}^{*\,0}(1430)_0$

extern GTopp **K1430_0_star_plus** $K^{*\,+}(1430)_0$

extern GTopp **K1430_0_star_minus** $K^{*\,-}(1430)_0$

extern GTopp **K_2_star_zero** $K_2^{*\,0}$

extern GTopp **K_2_star_bar** $\bar{K}_2^{*\,0}$

extern GTopp **K_2_star_plus** $K_2^{*\,+}$

extern GTopp **K_2_star_minus** $K_2^{*\,-}$

extern GTopp **K1680_star_zero** $K^{*\,0}(1680)$

extern GTopp **K1680_star_bar** $\bar{K}^{*\,0}(1680)$

extern GTopp **K1680_star_plus** $K^{*\,+}(1680)$

extern GTopp **K1680_star_minus** $K^{*\,-}(1680)$

extern GTopp **K1770_2_zero** $K(1770)_2^0$

extern GTopp **K1770_2_bar** $\bar{K}(1770)_2^0$

extern GTopp **K1770_2_plus** $K(1770)_2^+$

extern GTopp **K1770_2_minus** $K(1770)_2^-$

extern GTopp **K_3_star_zero** $K_3^{*\,0}$

extern GTopp

K_3_star_bar $\bar{K}_3^{*\,0}$

extern GTopp
K_3_star_plus $K_3^{*\,+}$

extern GTopp
K_3_star_minus $K_3^{*\,-}$

extern GTopp
K1820_2_zero $K^{*\,0}(1820)_2$

extern GTopp
K1820_2_bar $\bar{K}^{*\,0}(1820)_2$

extern GTopp
K1820_2_plus $K^{*\,+}(1820)_2$

extern GTopp
K1820_2_minus $K^{*\,-}(1820)_2$

extern GTopp
K_4_star_zero $K_4^{*\,0}$

extern GTopp
K_4_star_bar $\bar{K}_4^{*\,0}$

extern GTopp
K_4_star_plus $K_4^{*\,+}$

extern GTopp
K_4_star_minus $K_4^{*\,-}$

extern GTopp
D_zero D^0

extern GTopp
D_bar $\bar{D}$

extern GTopp
D_plus D^+

extern GTopp
D_minus D^-

extern GTopp
D_s_plus D_s^+

extern GTopp
D_s_minus D_s^-

extern GTopp
D_star_zero $D^{*\,0}$

extern GTopp
D_star_bar $\bar{D}^{*\,0}$

extern GTopp

D_star_plus D^{*+}

extern GTopp
D_star_minus D^{*-}

extern GTopp
D_s_star_plus D_s^{*+}

extern GTopp
D_s_star_minus D_s^{*-}

extern GTopp
D_0_star_zero D_0^{*0}

extern GTopp
D_0_star_bar $\bar{D}_0^{*0}$

extern GTopp
D_0_star_plus D_0^{*+}

extern GTopp
D_0_star_minus D_0^{*-}

extern GTopp
D_s0_star_plus D_{s0}^{*0}

extern GTopp
D_s0_star_minus $\bar{D}_{s0}^{*0}$

extern GTopp
D_1_zero D_1^0

extern GTopp
D_1_bar $\bar{D}_1$

extern GTopp
D_1_plus D_1^+

extern GTopp
D_1_minus D_1^-

extern GTopp
D_s1_plus D_{s1}^+

extern GTopp
D_s1_minus D_{s1}^-

extern GTopp
D_1_star_zero D_1^{*0}

extern GTopp
D_1_star_bar $\bar{D}_1^{*0}$

extern GTopp
D_1_star_plus D_1^{*+}

extern GTopp

D_1_star_minus $D_1^{*\,-}$

extern GTopp
D_s1_star_plus $D_{s1}^{*\,+}$

extern GTopp
D_s1_star_minus $D_{s1}^{*\,-}$

extern GTopp
D_2_star_zero $D_2^{*\,0}$

extern GTopp
D_2_star_bar $\bar{D}_2^{*\,0}$

extern GTopp
D_2_star_plus $D_2^{*\,+}$

extern GTopp
D_2_star_minus $D_2^{*\,-}$

extern GTopp
D_s2_star_plus $D_{s2}^{*\,+}$

extern GTopp
D_s2_star_minus $D_{s2}^{*\,-}$

extern GTopp
B_zero B^0

extern GTopp
B_bar $\bar{B}^0$

extern GTopp
B_plus B^+

extern GTopp
B_minus B^-

extern GTopp
B_s_zero B_s^0

extern GTopp
B_s_bar $\bar{B}_s^0$

extern GTopp
B_c_plus B_c^+

extern GTopp
B_c_minus B_c^-

extern GTopp
B_star_zero $B^{*\,0}$

extern GTopp
B_star_bar $\bar{B}^{*\,0}$

extern GTopp

B_star_plus B^{*+}

extern GTopp
B_star_minus B^{*-}

extern GTopp
B_s_star_zero B_s^{*0}

extern GTopp
B_s_star_bar $\bar{B}_s^{*0}$

extern GTopp
B_c_star_plus B_c^{*+}

extern GTopp
B_c_star_minus B_c^{*-}

extern GTopp
B_0_star_zero B_0^{*0}

extern GTopp
B_0_star_bar $\bar{B}_0^{*0}$

extern GTopp
B_0_star_plus B_0^{*+}

extern GTopp
B_0_star_minus B_0^{*-}

extern GTopp
B_s0_star_zero B_{s0}^{*0}

extern GTopp
B_s0_star_bar $\bar{B}_{s0}^{*0}$

extern GTopp
B_c0_star_plus B_{c0}^{*+}

extern GTopp
B_c0_star_minus B_{c0}^{*-}

extern GTopp
B_1_zero B_1^0

extern GTopp
B_1_bar $\bar{B}_1^0$

extern GTopp
B_1_plus B_1^+

extern GTopp
B_1_minus B_1^-

extern GTopp
B_s1_zero B_{s1}^0

extern GTopp

B_s1_bar $\bar{B}^0_{s1}$

extern GTopp
B_c1_plus B^+_{c1}

extern GTopp
B_c1_minus B^-_{c1}

extern GTopp
B_1_star_zero $B^{*\,0}_1$

extern GTopp
B_1_star_bar $\bar{B}^{*\,0}_1$

extern GTopp
B_1_star_plus $B^{*\,+}_1$

extern GTopp
B_1_star_minus $B^{*\,-}_1$

extern GTopp
B_s1_star_zero $B^{*\,0}_{s1}$

extern GTopp
B_s1_star_bar $\bar{B}^{*\,0}_{s1}$

extern GTopp
B_c1_star_plus $B^{*\,+}_{c1}$

extern GTopp
B_c1_star_minus $B^{*\,-}_{c1}$

extern GTopp
B_2_star_zero $B^{*\,0}_2$

extern GTopp
B_2_star_bar $\bar{B}^{*\,0}_2$

extern GTopp
B_2_star_plus $B^{*\,+}_2$

extern GTopp
B_2_star_minus $B^{*\,-}_2$

extern GTopp
B_s2_star_zero $B^{*\,0}_{s2}$

extern GTopp
B_s2_star_bar $\bar{B}^{*\,0}_{s2}$

extern GTopp
B_c2_star_plus $B^{*\,+}_{c2}$

extern GTopp
B_c2_star_minus $B^{*\,-}_{c2}$

extern GTopp

eta_c η_c

extern GTopp
Jpsi J/Ψ

extern GTopp
h_c1 h_{c1}

extern GTopp
chi_c0 χ_{c0}

extern GTopp
chi_c1 χ_{c1}

extern GTopp
chi_c2 χ_{c2}

extern GTopp
psi2S $\Psi(2S)$

extern GTopp
psi3S $\Psi(3S)$

extern GTopp
psi4S $\Psi(4S)$

extern GTopp
psi5S $\Psi(5S)$

extern GTopp
psi6S $\Psi(6S)$

extern GTopp
eta_b η_b

extern GTopp
Upsilon Υ

extern GTopp
h_b1 h_{b1}

extern GTopp
chi_b0 χ_{b0}

extern GTopp
chi_b1 χ_{b1}

extern GTopp
chi_b2 χ_{b2}

extern GTopp
Ups2S $\Upsilon(2S)$

extern GTopp
Ups3S $\Upsilon(3S)$

extern GTopp

Ups4S $\Upsilon(4S)$

extern GTopp
Ups5S $\Upsilon(5S)$

extern GTopp
Ups6S $\Upsilon(6S)$

extern GTopp
chi2P_b0 $\chi(2P)_{b0}$

extern GTopp
chi2P_b1 $\chi(2P)_{b1}$

extern GTopp
chi2P_b2 $\chi(2P)_{b2}$

extern GTopp
eta_t η_t

extern GTopp
Theta Θ

extern GTopp
h_t1 h_{t1}

extern GTopp
chi_t0 χ_{t0}

extern GTopp
chi_t1 χ_{t1}

extern GTopp
chi_t2 χ_{t2}

extern GTopp
eta_l η_l

extern GTopp
Theta_l Θ_l

extern GTopp
h_l1 h_{l1}

extern GTopp
chi_l0 χ_{l0}

extern GTopp
chi_l1 χ_{l1}

extern GTopp
chi_l2 χ_{l2}

extern GTopp
eta_h η_h

extern GTopp

Theta_h Θ_h

extern GTopp
h_h1 h_{h1}

extern GTopp
chi_h0 χ_{h0}

extern GTopp
chi_h1 χ_{h1}

extern GTopp
chi_h2 χ_{h2}

extern GTopp
pdiffr *diffractive proton*

extern GTopp
pdiffr_bar *diffractive anti-proton*

extern GTopp
ndiffr *diffractive neutron*

extern GTopp
nduffr_bar *diffractive anti-neutron*

extern GTopp
proton *Proton*

extern GTopp
p_bar *Antiproton*

extern GTopp
neutron *Neutron*

extern GTopp
n_bar *Antineutron*

extern GTopp
Delta_plus_plus Δ^{++}

extern GTopp
Delta_bar_minus_minus
$\bar{\Delta}^{--}$

extern GTopp
Delta_plus Δ^{+}

extern GTopp
Delta_bar_minus
$\bar{\Delta}^{-}$

extern GTopp
Delta_zero Δ^{0}

extern GTopp

Delta_bar_zero $\bar{\Delta}^0$

extern GTopp **Delta_minus** Δ^-

extern GTopp **Delta_bar_plus** $\bar{\Delta}^+$

extern GTopp **Lam_zero** Λ^0

extern GTopp **Lam_bar_zero** $\bar{\Lambda}^0$

extern GTopp **Lam_c_plus** Λ_c^+

extern GTopp **Lam_c_bar_minus** $\bar{\Lambda}_c^-$

extern GTopp **Lam_b_zero** Λ_b^0

extern GTopp **Lam_b_bar_zero** $\bar{\Lambda}_b^0$

extern GTopp **Sig_plus** Σ^+

extern GTopp **Sig_bar_minus** $\bar{\Sigma}^-$

extern GTopp **Sig_zero** Σ^0

extern GTopp **Sig_bar_zero** $\bar{\Sigma}^0$

extern GTopp **Sig_minus** Σ^-

extern GTopp **Sig_bar_plus** $\bar{\Sigma}^+$

extern GTopp **Sig_c_plus_plus** Σ_c^{++}

extern GTopp **Sig_c_bar_minus_minus** $\bar{\Sigma}_c^{--}$

extern GTopp **Sig_c_plus** Σ_c^+

extern GTopp

Sig_c_bar_minus $\bar{\Sigma}_c^-$

extern GTopp
Sig_c_zero Σ_c^0

extern GTopp
Sig_c_bar_zero $\bar{\Sigma}_c^0$

extern GTopp
Sig_b_plus Σ_b^+

extern GTopp
Sig_b_bar_minus $\bar{\Sigma}_b^-$

extern GTopp
Sig_b_zero Σ_b^0

extern GTopp
Sig_b_bar_zero $\bar{\Sigma}_b^0$

extern GTopp
Sig_b_minus Σ_b^-

extern GTopp
Sig_b_bar_plus $\bar{\Sigma}_b^+$

extern GTopp
Sig_star_plus Σ^{*+}

extern GTopp
Sig_star_bar_minus $\bar{\Sigma}^{*-}$

extern GTopp
Sig_star_zero Σ^{*0}

extern GTopp
Sig_star_bar_zero $\bar{\Sigma}^{*0}$

extern GTopp
Sig_star_minus Σ^{*-}

extern GTopp
Sig_star_bar_plus $\bar{\Sigma}^{*+}$

extern GTopp
Sig_c_star_plus_plus Σ_c^{*++}

extern GTopp

Sig_c_star_bar_minus_minus $\bar{\Sigma}_c^{*\,--}$

extern GTopp
Sig_c_star_plus $\Sigma_c^{*\,+}$

extern GTopp
Sig_c_star_bar_minus $\bar{\Sigma}_c^{*\,-}$

extern GTopp
Sig_c_star_zero $\Sigma_c^{*\,0}$

extern GTopp
Sig_c_star_bar_zero $\bar{\Sigma}_c^{*\,0}$

extern GTopp
Sig_b_star_plus $\Sigma_b^{*\,+}$

extern GTopp
Sig_b_star_bar_minus $\bar{\Sigma}_b^{*\,-}$

extern GTopp
Sig_b_star_zero $\Sigma_b^{*\,0}$

extern GTopp
Sig_b_star_bar_zero $\bar{\Sigma}_b^{*\,0}$

extern GTopp
Sig_b_star_minus $\Sigma_b^{*\,-}$

extern GTopp
Sig_b_star_bar_plus $\bar{\Sigma}_b^{*\,+}$

extern GTopp
Xi_zero Ξ^0

extern GTopp
Xi_bar_zero $\bar{\Xi}^0$

extern GTopp
Xi_minus Ξ^-

extern GTopp
Xi_bar_plus $\bar{\Xi}^+$

extern GTopp
Xi_c_plus Ξ_c^+

extern GTopp

Xi_c_bar_minus $\bar{\Xi}_c^-$

extern GTopp
Xi_c_zero Ξ_c^0

extern GTopp
Xi_c_bar_zero $\bar{\Xi}_c^0$

extern GTopp
Xi_prime_c_plus Ξ'^+_c

extern GTopp
Xi_prime_c_bar_minus $\bar{\Xi}'^-_c$

extern GTopp
Xi_prime_c_zero Ξ'^0_c

extern GTopp
Xi_prime_c_bar_zero $\bar{\Xi}'^0_c$

extern GTopp
Xi_cc_plus_plus Ξ_{cc}^{++}

extern GTopp
Xi_cc_bar_minus_minus $\bar{\Xi}_{cc}^{--}$

extern GTopp
Xi_cc_plus Ξ_{cc}^{+}

extern GTopp
Xi_cc_bar_minus $\bar{\Xi}_{cc}^{-}$

extern GTopp
Xi_star_zero $\Xi^{*\,0}$

extern GTopp
Xi_star_bar_zero $\bar{\Xi}^{*\,0}$

extern GTopp
Xi_star_minus $\Xi^{*\,-}$

extern GTopp
Xi_star_bar_plus $\bar{\Xi}^{*\,+}$

extern GTopp
Xi_c_star_plus $\Xi_c^{*\,+}$

extern GTopp
Xi_c_star_bar_minus $\bar{\Xi}_c^{*\,-}$

extern GTopp

Xi_c_star_zero $\Xi_c^{*\,0}$

extern GTopp
Xi_c_star_bar_zero $\bar{\Xi}_c^{*\,0}$

extern GTopp
Xi_cc_star_plus_plus $\Xi_{cc}^{*\,++}$

extern GTopp
Xi_cc_star_bar_minus_minus $\bar{\Xi}_{cc}^{*\,--}$

extern GTopp
Xi_cc_star_plus $\Xi_{cc}^{*\,+}$

extern GTopp
Xi_cc_star_bar_minus $\bar{\Xi}_{cc}^{*\,-}$

extern GTopp
Xi_b_zero Ξ_b^0

extern GTopp
Xi_b_bar_zero $\bar{\Xi}_b^0$

extern GTopp
Xi_b_minus Ξ_b^-

extern GTopp
Xi_b_bar_plus $\bar{\Xi}^+$

extern GTopp
Xi_prime_b_zero $\Xi{'}_b^0$

extern GTopp
Xi_prime_b_bar_zero $\bar{\Xi}{'}_b^0$

extern GTopp
Xi_prime_b_minus $\Xi{'}_b^-$

extern GTopp
Xi_prime_b_bar_plus $\bar{\Xi}{'}_b^+$

extern GTopp
Xi_bc_plus Ξ_{bc}^+

extern GTopp
Xi_bc_bar_minus $\bar{\Xi}_{bc}^-$

extern GTopp

Xi_bc_zero Ξ_{bc}^{0}

extern GTopp
Xi_bc_bar_zero $\bar{\Xi}_{bc}^{0}$

extern GTopp
Xi_prime_bc_plus
Ξ'^{+}_{bc}

extern GTopp
Xi_prime_bc_bar_minus
$\bar{\Xi}'^{-}_{bc}$

extern GTopp
Xi_prime_bc_zero
Ξ'^{0}_{bc}

extern GTopp
Xi_prime_bc_bar_zero
$\bar{\Xi}'^{0}_{bc}$

extern GTopp
Xi_bb_zero Ξ_{bb}^{0}

extern GTopp
Xi_bb_bar_zero $\bar{\Xi}_{bb}^{0}$

extern GTopp
Xi_bb_minus Ξ_{bb}^{+}

extern GTopp
Xi_bb_bar_plus $\bar{\Xi}_{bb}^{-}$

extern GTopp
Xi_b_star_zero $\Xi_{b}^{*\,0}$

extern GTopp
Xi_b_star_bar_zero
$\bar{\Xi}_{b}^{*\,0}$

extern GTopp
Xi_b_star_minus $\Xi_{b}^{*\,-}$

extern GTopp
Xi_b_star_bar_plus
$\bar{\Xi}_{b}^{*\,+}$

extern GTopp
Xi_bc_star_plus $\Xi_{bc}^{*\,+}$

extern GTopp
Xi_bc_star_bar_minus
$\bar{\Xi}_{bc}^{*\,-}$

extern GTopp

Xi_bc_star_zero $\Xi_{bc}^{*\,0}$

extern GTopp **Xi_bc_star_bar_zero** $\bar{\Xi}_{bc}^{*\,0}$

extern GTopp **Xi_bb_star_zero** $\Xi_{bb}^{*\,0}$

extern GTopp **Xi_bb_star_bar_zero** $\bar{\Xi}_{bb}^{*\,0}$

extern GTopp **Xi_bb_star_minus** $\Xi_{bb}^{*\,-}$

extern GTopp **Xi_bb_star_bar_plus** $\bar{\Xi}_{bb}^{*\,+}$

extern GTopp **Ome_minus** Ω^{-}

extern GTopp **Ome_bar_plus** $\bar{\Omega}^{+}$

extern GTopp **Ome_c_zero** Ω_{c}^{0}

extern GTopp **Ome_c_bar_zero** $\bar{\Omega}_{c}^{0}$

extern GTopp **Ome_cc_plus** Ω_{cc}^{+}

extern GTopp **Ome_cc_bar_minus** $\bar{\Omega}_{cc}^{-}$

extern GTopp **Ome_ccc_plus_plus** Ω_{ccc}^{++}

extern GTopp **Ome_ccc_bar_minus_minus** $\bar{\Omega}_{ccc}^{--}$

extern GTopp **Ome_b_minus** Ω_{b}^{-}

extern GTopp **Ome_b_bar_plus** $\bar{\Omega}_{b}^{+}$

extern GTopp

Ome_bc_zero Ω^0_{bc}

extern GTopp
Ome_bc_bar_zero
$\bar{\Omega}^0_{bc}$

extern GTopp
Ome_prime_bc_zero
Ω'^0_{bc}

extern GTopp
Ome_prime_bc_bar_zero
$\bar{\Omega}'^0_{bc}$

extern GTopp
Ome_bcc_plus Ω^+_{bcc}

extern GTopp
Ome_bcc_bar_minus
$\bar{\Omega}^-_{bcc}$

extern GTopp
Ome_bb_minus Ω^-_{bb}

extern GTopp
Ome_bb_bar_plus
$\bar{\Omega}^+_{bb}$

extern GTopp
Ome_bbc_zero Ω^0_{bbc}

extern GTopp
Ome_bbc_bar_zero
$\bar{\Omega}^0_{bbc}$

extern GTopp
Ome_bbb_minus Ω^-_{bbb}

extern GTopp
Ome_bbb_bar_plus
$\bar{\Omega}^+_{bbb}$

extern GTopp
Ome_c_star_zero $\Omega^{*\,0}_c$

extern GTopp
Ome_c_star_bar_zero
$\bar{\Omega}^{*\,0}_c$

extern GTopp
Ome_cc_star_plus
$\Omega^{*\,+}_{cc}$

extern GTopp

Ome_cc_star_bar_minus
$\bar{\Omega}_{cc}^{*\,-}$

extern GTopp
Ome_b_star_minus
$\Omega_{b}^{*\,-}$

extern GTopp
Ome_b_star_bar_plus
$\bar{\Omega}_{b}^{*\,+}$

extern GTopp
Ome_bc_star_zero
$\Omega_{bc}^{*\,0}$

extern GTopp
Ome_bc_star_bar_zero
$\bar{\Omega}_{bc}^{*\,0}$

extern GTopp
Ome_bcc_star_plus
$\Omega_{bcc}^{*\,+}$

extern GTopp
Ome_bcc_star_bar_minus
$\bar{\Omega}_{bcc}^{*\,-}$

extern GTopp
Ome_bb_star_minus
Ω_{bb}^{*-}

extern GTopp
Ome_bb_star_bar_plus
$\bar{\Omega}_{bb}^{*\,+}$

extern GTopp
Ome_bbc_star_zero
$\Omega_{bbc}^{*\,0}$

extern GTopp
Ome_bbc_star_bar_zero
$\bar{\Omega}_{bbc}^{*\,0}$

extern GTopp
Deuteron

extern GTopp
Deuteron_bar

extern GTopp
Tritium

extern GTopp

Tritium_bar

extern GTopp
Alpha

extern GTopp
Alpha_bar

extern GTopp
Lithium

extern GTopp
Lithium_bar

extern GTopp
Beryllium

extern GTopp
Beryllium_bar

extern GTopp
Boron

extern GTopp
Boron_bar

extern GTopp
Carbon

extern GTopp
Carbon_bar

extern GTopp
Nitrogen

extern GTopp
Nitrogen_bar

extern GTopp
Oxygen

extern GTopp
Oxygen_bar

extern GTopp
Fluorine

extern GTopp
Fluorine_bar

extern GTopp
Neon

extern GTopp
Neon_bar

extern GTopp

Sodium

extern GTopp
Sodium_bar

extern GTopp
Magnesium

extern GTopp
Magnesium_bar

extern GTopp
Aluminum

extern GTopp
Aluminum_bar

extern GTopp
Silicon

extern GTopp
Silicon_bar

extern GTopp
Phosphoros

extern GTopp
Phosphoros_bar

extern GTopp
Sulfur

extern GTopp
Sulfur_bar

extern GTopp
Chlorine

extern GTopp
Chlorine_bar

extern GTopp
Argon

extern GTopp
Argon_bar

extern GTopp
Potassium

extern GTopp
Potassium_bar

extern GTopp
Calcium

extern GTopp

Calcium_bar

extern GTopp
Scandium

extern GTopp
Scandium_bar

extern GTopp
Titanium

extern GTopp
Titanium_bar

extern GTopp
Vanadium

extern GTopp
Vanadium_bar

extern GTopp
Chromium

extern GTopp
Chromium_bar

extern GTopp
Manganese

extern GTopp
Manganese_bar

extern GTopp
Iron

extern GTopp
Iron_bar

extern GTopp
Cobalt

extern GTopp
Cobalt_bar

extern GTopp
Nickel

extern GTopp
Nickel_bar

extern GTopp
Copper

extern GTopp
Copper_bar

extern GTopp

cd_0

extern GTopp
cd_0_bar

extern GTopp
cd_1

extern GTopp
cd_1_bar

extern GTopp
cu_0

extern GTopp
cu_0_bar

extern GTopp
cu_1

extern GTopp
cu_1_bar

extern GTopp
Any *Any particle*

extern GTopp
Any_plus *Any positive particle*

extern GTopp
Any_minus *Any negative particle*

Class Graph