Effects of heavy Higgs bosons 1.0

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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2 **Hierarchical Index**

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Class Index

Chapter 3

Class Documentation

3.1 AmplitudePrefactors Struct Reference

```
#include <HiggsModel.h>
```

Public Member Functions

• void Print (std::ostream &ost)

Public Attributes

- double **PREF_B_PHIxPHI** = 0.0
- double PREF_B PHIxQCD = 0.0
- double PREF_B_QCDxQCD = 0.0
- double PREF_B_QCDxQCD_CF = 0.0
- double **PREF_B_QCDxQCD_CA** = 0.0
- double PREF_B_QCDxQCD_CFCA = 0.0
- double **PREF_V_PHIxQCD** = 0.0
- double **PREF_V_PHIxQCD_CF** = 0.0
- double PREF_V_PHIxQCD_CA = 0.0
- double PREF_V_PHIxQCD_CFCA2 = 0.0
- double PREF_V_PHIxQCD_Nf = 0.0
- double PREF_V_PHIxQCD_CT = 0.0
- double PREF_V_PHIxPHI = 0.0
- double **PREF_V_PHIxPHI_CA** = 0.0
- double **PREF_V_PHIxPHI_CF** = 0.0
- double PREF_R_PHIxQCD = 0.0
- double PREF_R_PHIxQCD_CF = 0.0
- double PREF_R_PHIxQCD_CA = 0.0
- double **PREF_R_PHIxQCD_CFCA2** = 0.0
- double PREF_R_PHIxPHI = 0.0
- double PREF_R_PHIxPHI_CA = 0.0
- double PREF_R_PHIxPHI_CF = 0.0
- double **PREF_UID_TF** = 0.0
- double **PREF_UID_CA** = 0.0
- double **PREF_UID_CF** = 0.0

3.1.1 Detailed Description

This structure contains the prefactors used in the amplitudes. The prefactors depend on AlphaS and have to be reset whenever it changes (usually only once for each run). This is done via the HiggsModel class.

See Also

HiggsModel::SetAmpPrefactors()

The documentation for this struct was generated from the following files:

- · inc/HiggsModel.h
- src/HiggsModel.cpp

3.2 CanvasPtr Struct Reference

Public Attributes

- TCanvas * c
- TPad * p1 1
- TPad * **p1_2**

The documentation for this struct was generated from the following file:

• inc/Functions_Shared.h

3.3 DoubleCanvasPtr Struct Reference

Public Attributes

- CanvasPtr c1
- CanvasPtr c2

The documentation for this struct was generated from the following file:

· inc/Functions_Shared.h

3.4 eps_entry Struct Reference

Public Attributes

- int indices [4]
- int sign

The documentation for this struct was generated from the following file:

· src/Functions_Shared.cpp

3.5 FV Class Reference 7

3.5 FV Class Reference

Public Member Functions

- FV (double const &a=0.0)
- FV (FV const &rhs)
- FV (FV &&rhs) noexcept
- FV (std::initializer_list< double > rhs)
- double & operator[] (int const &i)
- double const & operator[] (int const &i) const
- FV & operator= (std::initializer_list< double > L)
- FV & operator= (FV const &other)
- FV & operator= (FV &&other) noexcept
- FV & operator+= (FV const &other)
- FV & operator-= (FV const &other)
- FV & operator*= (double const &a)
- FV & operator/= (double const &a)

Protected Attributes

• double v [4]

The documentation for this class was generated from the following files:

- · inc/Lorentz.h
- · src/Lorentz.cpp

3.6 gsl_monte_vegas_state Struct Reference

Public Attributes

- · double alpha
- int mode
- int verbose
- unsigned int iterations
- int stage
- size_t dim
- size t bins max
- · double vol
- double * delx
- · unsigned int bins
- · unsigned int boxes
- double * xi
- double * d
- double * xin
- double * weight
- double * x
- int * **bin**
- int * **box**
- double bin_vol
- · double wgt
- double jac
- double wtd_int_sum

- · double sum_wgts
- double chi_sum
- · double chisq
- · double result
- · double sigma
- unsigned int it_start
- · unsigned int it num
- · unsigned int samples
- · unsigned int calls_per_box
- FILE * ostream

The documentation for this struct was generated from the following file:

· inc/VEGAS.h

3.7 HiggsBoson Class Reference

#include <HiggsModel.h>

Public Member Functions

- HiggsBoson (double m, double g, double at, double bt, double ab=0.0, double bb=0.0)
- void **Set** (double m, double g, double at, double bt, double ab=0.0, double bb=0.0)
- void **SetCoupling** (double at, double bt, double ab=0.0, double bb=0.0)
- · void CmpFormFactors (double &S)
- double const & M () const
- · double const & G () const
- · double const & M2 () const
- · double const & G2 () const
- · double const & At () const
- double const & Bt () const
- double const & Ab () const
- double const & Bb () const
- double const & FH () const
- double const & FA () const
- double const & FH2 () const
- · double const & FA2 () const
- c_double const & F_ggH_s () const
- c_double const & F_ggH_p () const
- **HiggsBoson** (double const &M, double const &G, double const &Vh, double const &At, double const &Bt, double const &Ab=0.0, double const &Bb=0.0)
- · double const & M () const
- double const & G () const
- · double const & At () const
- double const & Bt () const
- double const & Ab () constdouble const & Bb () const
- c_double const & GetFH0 () const
- c_double const & GetFA0 () const
- void SetFormFactors (double S, double mt2, double mb2)

compute 1-loop form factors for given c.m.e., top- and bottom mass and store values in member variables

- · c double const & GetFs () const
- c_double const & GetFp () const

- c_double const & GetFH (bool EFF) const
 - returns effective gg-scalar coupling if EFF=true, full 1-loop form factor otherwise
- c_double const & GetFA (bool EFF) const
 - returns effective gg-pseudoscalar coupling if EFF=true, full 1-loop form factor otherwise
- void SetPropagator (double const &S)
 - compute propagator value for given c.m.e. and store values in member variables
- · double const & GetPropagatorSq () const
- c_double const & GetPropagator () const

Static Public Attributes

• static double **Vh** = 246.0/RunParameters::mScale

Protected Attributes

- double d_M
 - mass
- double d G
 - width
- double d M2
 - mass squared
- double d_G2
 - width squared
- · double d At
 - reduced scalar-top coupling diveded by combined vacuum expectation value
- double d_Bt
 - reduced pseudoscalar-top coupling diveded by combined vacuum expectation value
- double d_Ab
 - reduced scalar-bottom coupling diveded by combined vacuum expectation value
- double d_Bb
 - reduced pseudoscalar-bottom coupling diveded by combined vacuum expectation value
- double d FH
- double d_FA
- · double d_FH2
- double d_FA2
- c_double d_F_ggH_s
- c_double d_F_ggH_p

3.7.1 Detailed Description

This class contains the parameters that describe a single neutral Higgs boson.

See Also

HiggsModel

3.7.2 Member Function Documentation

3.7.2.1 void HiggsBoson::SetFormFactors (double S, double mt2, double mb2)

compute 1-loop form factors for given c.m.e., top- and bottom mass and store values in member variables

Parameters

S	c.m.e.
mt2	top-mass squared
mb2	bottom-mass squared

3.7.2.2 void HiggsBoson::SetPropagator (double const & S)

compute propagator value for given c.m.e. and store values in member variables

Parameters

S	momentum squared in the Higgs propagators

The documentation for this class was generated from the following files:

- · inc/Higgs.h
- · inc/HiggsModel.h
- · src/Higgs.cpp
- src/HiggsModel.cpp

3.8 HiggsModel Class Reference

#include <HiggsModel.h>

Public Member Functions

- **HiggsModel** (std::string const &name="noname")
- std::string const & Name () const
- double const & AlphaS () const
- double const & AlphaS2 () const
- · double const & MUR () const
- double const & MUR2 () const
- double const & MUF () const
- · double const & MUF2 () const
- · double const & mt () const
- double const & mt2 () const
- double const & **mb** () const
- · double const & mb2 () const
- · double const & VH () const
- void SetAlphaS (double const &val)

Use this member to change AlphaS. It automatically resets the values of the amplitude prefactors.

- void SetMUR (double const &val)
- void SetMUF (double const &val)
- void SetMt (double const &val)
- void SetMb (double const &val)
- void SetVH (double const &val)
- void SetPrefactors (double const &S, bool EFF)

Reset values of the Higgs prefactors. All Higgs bosons in the vector d_Bosons will be taken into account.

- HiggsPrefactors const & GetHiggsPrefactors () const
- · void SetAmpPrefactors ()

Reset values of the amplitude prefactors.

• AmplitudePrefactors const & GetAmpPrefactors () const

void AddBoson (double const &M, double const &G, double const &a_t=1.0, double const &b_t=1.0, double const &a_b=0.0, double const &b_b=0.0)

Add a Higgs boson to the vector d_Bosons.

- void AddScalar (double const &M, double const &G, double const &a_t=1.0, double const &a_b=0.0)
 Add a scalar Higgs boson to the vector d_Bosons.
- void AddPseudoscalar (double const &M, double const &G, double const &b_t=1.0, double const &b_b=0.0)

 Add a pseudoscalar Higgs boson to the vector d_Bosons.
- void PopBoson ()

Remove the last Higgs boson added to the vector d_Bosons.

void Print (std::ostream &ost, double const &mScale)

3.8.1 Detailed Description

This class contains all the physical, model specific parameters, i.e. the strong coupling AlphaS, renormalization and factorization scales MUR, MUF, the third generation quark masses mt and mb as well as the combined Higgs vacuum expectation value VH and the individual Higgs boson parameters. It also provides appropriate setter functions. It contains instances of the HiggsPrefactors and Amprefactors structures that are needed for the evaluation of the amplitudes. Take care to provide numerical values consistently in the same units.

See Also

AmpPrefactors, HiggsPrefactors, HiggsBoson

3.8.2 Member Function Documentation

3.8.2.1 void HiggsModel::AddBoson (double const & M, double const & G, double const & $a_t = 1 \cdot 0$, double const & $b_t = 1 \cdot 0$, double const & $a_t = 0 \cdot 0$, double const & $a_t = 0 \cdot 0$, double const & $a_t = 0 \cdot 0$, double const & $a_t = 0 \cdot 0$

Add a Higgs boson to the vector d_Bosons.

Parameters

М	mass
G	width
a_t	reduced scalar coupling to the top-quark
b_t	reduced pseudoscalar coupling to the top-quark
a_t	reduced scalar coupling to the bottom-quark
b_t	reduced pseudoscalar coupling to the bottom-quark

3.8.2.2 void HiggsModel::AddPseudoscalar (double const & M, double const & G, double const & $b_t = 1.0$, double const & $b_t = 0.0$)

Add a pseudoscalar Higgs boson to the vector d_Bosons.

Parameters

М	mass
G	width
b_t	reduced pseudoscalar coupling to the top-quark
b_t	reduced pseudoscalar coupling to the bottom-quark

3.8.2.3 void HiggsModel::AddScalar (double const & M, double const & G, double const & $a_t = 1 \cdot 0$, double const & $a_b = 0 \cdot 0$)

Add a scalar Higgs boson to the vector d_Bosons.

Parameters

М	mass
G	width
a_t	reduced scalar coupling to the top-quark
a_t	reduced scalar coupling to the bottom-quark

3.8.2.4 void HiggsModel::SetPrefactors (double const & S, bool EFF)

Reset values of the Higgs prefactors. All Higgs bosons in the vector d Bosons will be taken into account.

Parameters

	S	momentum squared in the Higgs propagators
EF	F	use effective Higgs-top coupling (large mt limit) if true. Couplings to the bottom-quark have
		no effect in this case. The full one-loop form factors are used otherwise.

The documentation for this class was generated from the following files:

- · inc/HiggsModel.h
- · src/HiggsModel.cpp

3.9 HiggsPrefactors Struct Reference

#include <HiggsModel.h>

Public Member Functions

- · void Reset ()
- void Print (std::ostream &ost)

Public Attributes

- double **At_fH_re** = 0.0
- double **At_fA_re** = 0.0
- double **Bt_fH_re** = 0.0
- double **Bt_fA_re** = 0.0
- double **At_fH_im** = 0.0
- double **At fA im** = 0.0
- double **Bt_fH_im** = 0.0
- double **Bt_fA_im** = 0.0
- double **At2_fH2_De** = 0.0
- double **At2_fA2_De** = 0.0
- double $Bt2_fH2_De = 0.0$
- double **Bt2_fA2_De** = 0.0
- double **At_Bt_fH2_De** = 0.0
- double **At_Bt_fA2_De** = 0.0
- double At_Bt_fH2_DeIM = 0.0
- double At_Bt_fA2_DeIM = 0.0

3.9.1 Detailed Description

This structure contains the Higgs specific prefactors, i.e. couplings and propagator denominator. The prefactors depend on the momentum of the Higgs boson and have to be reset whenever it changes (usually for every call of the integrand). This is done via the HiggsModel class.

See Also

HiggsModel::SetPrefactors()

The documentation for this struct was generated from the following files:

- · inc/HiggsModel.h
- src/HiggsModel.cpp

3.10 HistArray Class Reference

Public Member Functions

- HistArray (int nbinsx, double xlow, double xup, int mass_dim, std::string const &label="", bool SUMW2=false)
- TH1D * operator[] (unsigned i)
- · bool IsActive (unsigned i)
- · void SetActive (unsigned i)
- · void Pause ()
- void Resume ()
- · void SetLabel (std::string const &label)
- const char * GetLabel ()
- void FillAll (double const &x, double const &wgt)
- · void FillOne (unsigned i, double const &x, double const &wgt)
- void Draw (const char *opt="")
- void Scale (double c)
- · void Normalize (bool MASS=false)

Protected Attributes

- TH1D d_histograms [NHIST]
- · unsigned d_active
- unsigned d_active_t
- std::string d_label
- int d_mass_dim

Static Protected Attributes

static int d ID = 0

The documentation for this class was generated from the following files:

- · inc/HistArray.h
- · src/HistArray.cpp

3.11 **Integral Class Reference**

Public Member Functions

- Integral (size t dim)
- Integral (size_t dim, double IntLimitLo[], double IntLimitUp[])
- Integral & operator= (Integral const &rhs)
- bool operator> (size_t rhs)
- bool operator< (size_t rhs)
- bool operator>= (size_t rhs)
- bool operator<= (size_t rhs)
- bool operator== (size_t rhs)
- bool operator!= (size_t rhs)
- bool InRange (size_t i)
- · double Lo (size ti)
- double **Up** (size_t i)
- double * **Lo** ()
- double * **Up** ()
- unsigned GetDim ()
- void SetIntegrand (GSLIFnc Integrand)
- GSLIFnc GetIntegrand ()
- void PrintLimits (std::ostream &ost=std::cout)
- void Print (std::ostream &ost=std::cout)

Public Attributes

· vegas par LastRun

The documentation for this class was generated from the following files:

- · inc/Integrator.h
- · src/Integrator.cpp

integrand_par Class Reference 3.12

Public Member Functions

- integrand_par (std::ostream &os=std::cout)
- double cmp_v_weight ()
- void SetPS (PS_2 *psn)

Public Attributes

- · double s_hadr
- PS_2 * ps
- LHAPDF::PDF * pdf
- gsl_monte_vegas_state * v_state
- std::vector< HistArray * > * distributions
- bool collect dist
- · bool tDecay
- std::ostream & ost
- ulong eval_flags

- double K
- · bool cleanup

The documentation for this class was generated from the following files:

- · inc/Integrator.h
- · src/Integrator.cpp

3.13 Integrator Class Reference

Public Member Functions

- Integrator (std::ostream &ost=std::cout)
- void **SetState** (gsl_monte_vegas_state *extGSLState)
- · void DropState ()
- void Integrate (Integral &integral, integrand_par &ip, vegas_par &vp)
- · void Reset ()

The documentation for this class was generated from the following files:

- · inc/Integrator.h
- · src/Integrator.cpp

3.14 LT Class Reference

Public Member Functions

- void invert ()
- void transpose ()
- void apply (FV &v)
- void apply_G (FV &v)
- int set_FF (FV const &p1, FV const &p2)
- int **set_II** (FV const &K, FV const &Kb)
- int set_boost (FV const &P, bool INV=false)
- int set_boost_inv (FV const &P)
- int set_wigner (FV const &P1, FV const &P2)
- void print ()

Protected Attributes

• double M [4][4]

Static Protected Attributes

• static const double **G** [4] = {1.0,-1.0,-1.0,-1.0}

The documentation for this class was generated from the following files:

- · inc/Lorentz.h
- · src/Lorentz.cpp

3.15 opt Struct Reference

Public Attributes

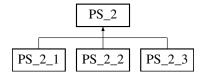
- · int int_flags
- int n_calls
- · double ren_scale
- double cme
- double mH
- · double GammaH
- · double At
- · double Bt
- · double Ab
- double **Bb**
- · int tech cut
- · int precision
- · bool dist
- · bool tdecay
- bool logfile
- · bool rootfile
- · int verb_level

The documentation for this struct was generated from the following file:

· inc/Functions_Shared.h

3.16 PS_2 Class Reference

Inheritance diagram for PS_2:



- PS_2 (const std::string &nm="")
- FV & p1 ()
- FV & p2 ()
- FV const & **p1** () const
- FV const & p2 () const
- FV & P1 ()
- FV & P2 ()
- FV const & P1 () const
- FV const & P2 () const
- double const & get_rs () const
- double get s () const
- void set_rs (double const &rs)
- void set_name (std::string const &name)
- bool toggle_decay ()

- double const & get_wgt ()
- int set_parent (PS_2 *parent)
- void swap ()
- virtual double const & get_msq (int i) const =0
- virtual PS_2 * get_child (int i) const =0
- virtual int set_child (int i, PS 2 *child)=0
- virtual FV const & get_k (int i) const =0
- virtual int whattype () const =0
- · virtual void print () const
- virtual void **FillDistributions** (std::vector< HistArray * > &dist, int id, double const &wgt)=0

Protected Member Functions

• void set_initial_state (double const &s)

Protected Attributes

- · double d_rs
- std::string d_name
- FV p [2]
- FV P [2]
- double d_wgt
- · bool d_decay
- PS_2 * d_parent

The documentation for this class was generated from the following files:

- inc/PhaseSpace.h
- src/PhaseSpace.cpp

3.17 PS_2_1 Class Reference

Inheritance diagram for PS_2_1:



- **PS_2_1** (const std::string &nm="2->2")
- PS_2_1 (double const &msq, const std::string &nm="2->2")
- void set_x (double const &x)
- double const & get_x () const
- FV const & get_k (int i) const
- PS 2 * get_child (int i) const
- double const & get_msq (int i) const
- · void set_msq (double const &msq)
- FV & k1 ()

- FV const & k1 () const
- int set ()
- int set_child (int i, PS_2 *child)
- int whattype () const
- · void print () const
- void FillDistributions (std::vector< HistArray * > &dist, int id, double const &wgt)

Protected Attributes

- FV k
- FV S
- double d msq
- PS_2 * d_child
- double d x

Additional Inherited Members

The documentation for this class was generated from the following files:

- · inc/PhaseSpace.h
- src/PhaseSpace.cpp

3.18 PS_2_2 Class Reference

Inheritance diagram for PS_2_2:



- **PS_2_2** (const std::string &nm="2->2")
- PS_2_2 (double const &m1sq, double const &m2sq, const std::string &nm="2->2")
- FV const & get k (int i) const
- PS_2 * get_child (int i) const
- double const & get_msq (int i) const
- void set_msq (double const &m1sq, double const &m2sq)
- double const & get_beta (int i) const
- double const & get_beta () const
- double const & **get_y** () const
- double const & get_phi () const
- double const & get_t11 () const
- double const & get_t12 () const
- double const & get_x () const
- double const & get_beta_y () const
- void set_x (double const &x)
- double cmp_wgt ()
- FV & k1 ()

- FV & k2 ()
- FV & s1 ()
- FV & s2 ()
- FV & s1_r ()
- FV & s2 r ()
- FV const & k1 () const
- FV const & k2 () const
- FV const & s1 () const
- FV const & s2 () const
- FV const & s1 r () const
- FV const & s2_r () const
- int boost initial state ()
- int boost_initial_state (double const &x)
- int boost_final_state ()
- int set (double const &rs, double const &y, double const &phi=0.0)
- · void set ()
- int set child (int i, PS 2 *child)
- int whattype () const
- · void print () const
- void FillDistributions (std::vector< HistArray * > &dist, int id, double const &wgt)

Additional Inherited Members

The documentation for this class was generated from the following files:

- · inc/PhaseSpace.h
- · src/PhaseSpace.cpp

3.19 PS_2_3 Class Reference

Inheritance diagram for PS 2 3:



- PS_2_3 (double const &m1sq, double const &m2sq, double const &m3sq, const std::string &nm="2->3")
- **PS_2_3** (const std::string &nm="2->3")
- FV const & get_k (int i) const
- PS 2 * get_child (int i) const
- double const & get_msq (int i) const
- void set_msq (double const &m1sq, double const &m2sq, double const &m3sq)
- · double const & get_beta (int i) const
- · double const & get_y_cm () const
- · double const & get_M12 () const
- double const & get_y_12 () const
- double const & get_phi_12 () const
- FV & k1 ()

- FV & k2 ()
- FV & k3 ()
- FV & p3 ()
- FV & s1 ()
- FV & s2 ()
- FV & s1_r()
- FV & s2_r ()
- FV const & k1 () const
- FV const & k2 () const
- FV const & k3 () const
- FV const & p3 () const
- FV const & s1 () const
- FV const & s2 () const
- FV const & s1_r () const
- FV const & s2 r () const
- int boost_to_parent ()
- int **set** (double const &rs, double const &y_cm, double const &phi_cm, double const &M12, double const &y_12, double const &phi_12)
- int set_child (int i, PS 2 *child)
- int whattype () const
- · void print () const
- void FillDistributions (std::vector< HistArray * > &dist, int id, double const &wgt)

Additional Inherited Members

The documentation for this class was generated from the following files:

- · inc/PhaseSpace.h
- src/PhaseSpace.cpp

3.20 teebuf Class Reference

Inheritance diagram for teebuf:



Public Member Functions

• teebuf (std::streambuf *sb1, std::streambuf *sb2)

The documentation for this class was generated from the following file:

· inc/Global.h

3.21 teestream Class Reference

Inheritance diagram for teestream:



Public Member Functions

• teestream (std::ostream &o1, std::ostream &o2)

The documentation for this class was generated from the following file:

· inc/Global.h

3.22 vegas_par Class Reference

Public Member Functions

· void Print (std::ostream &ost=std::cout)

Public Attributes

- int verbose
- int calls
- int iterations
- int max_runs
- int num_runs
- double chisq_limit
- · double chisq
- bool do_warmup
- bool grid_fixed
- · double result
- · double error

The documentation for this class was generated from the following files:

- · inc/Integrator.h
- src/Integrator.cpp

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