

# LCG Monte-Carlo Events Data Base

*L. Dudko, MSU, MOSCOW*  
***on behalf of LCG MCDB***  
***group***

**<http://mcdb.cern.ch>**

## OUTLINE:

- Overview of LCG MCDB
- Demonstration of the interfaces
- Short instructions how to use it

*MCDB team:*

*P. Bartalini, Univ. of  
Florida*

*S. Belov, JINR*

*L. Dudko, SINP MSU*

*A. Gusev, IHEP*

*A. Sherstnev, Univ. of  
Cambridge*

# Overview of MCDB

## **- The Major Tasks of LCG MCDB**

- **Share sophisticate MC samples between different groups**
  - Samples, which require expert knowledges to simulate it**
  - Samples, simulation of which require a lot of CPU resources**
- **Provide infrastructure to keep MC samples and sample documentation**
- **Facilitates communication between experts of MC and users in LHC collaborations**

# History: CMS MCDB

- <http://cmsdoc.cern.ch/cms/generators/mcdb/>
- Operates in CMS during the last four years, widely uses by the Higgs group
- Only parton level files; AFS storage;  
Only phonetic search; No SQL

The screenshot shows a web browser window titled "LCG Monte-Carlo Events DataBase - Mozilla". The page has a dark blue header with the CERN logo on the left and the CMS logo on the right. The main title "Monte-Carlo Events Data Base" is centered. On the left side, there is a vertical navigation menu with links: HIGGS, TOP, W and n jets, Z and n jets, Gamma and n jets, WW and n jets, ZZ and n jets, WZ and n jets, Gamma Gamma n jets, W Gamma n jets, Z Gamma n jets, QCD multijets, REQUESTS, PROGRAMS, and FAQ. The main content area displays a list of event sets, each with a title, description, and publication details. The right side of the page contains a sidebar with links: "PUBLISH NEW DOCUMENT:" (with sub-links for non authorized author, authorized author, and administrators area) and "HELP". At the bottom left, there is a search box with the text "SEARCH THIS SITE" and a "search" button. The browser's status bar at the bottom shows various icons and the address bar.

LCG Monte-Carlo Events DataBase - Mozilla

Monte-Carlo Events Data Base

**HIGGS**  
TOP  
W and n jets  
Z and n jets  
Gamma and n jets  
WW and n jets  
ZZ and n jets  
WZ and n jets  
Gamma Gamma n jets  
W Gamma n jets  
Z Gamma n jets  
QCD multijets  
REQUESTS  
PROGRAMS  
FAQ

**QCD 2TAU+3J EVENTS WITH ALPGEN2. CAN BE USED FOR MLM ME+PS**  
QCD 2tau+3j events generated with ALPGEN2 by Mako Takahashi. Can be used for MLM ME+PS procedure, since generated with icikw=1  
published: 06/06/2005 | author: Alexandre Nikitenko | category: Z and n jets

**QCD 2TAU+2J EVENTS WITH ALPGEN2. CAN BE USED FOR MLM ME+PS**  
QCD 2tau+2j events generated with ALPGEN2 by Mako Takahashi. Can be used for MLM ME+PS procedure, since generated with icikw=1  
published: 06/06/2005 | author: Alexandre Nikitenko | category: Z Gamma n jets

**LO gg->W\*W\*->2L EVENTS, L = E, MU, TAU**  
LO gg->W\*W\*->2l events provided by Nikolas Kauer for gg->H->WW\*->2l study during Les Houches 2005 Workshop. The information about generator can be found on Higgs group page  
published: 19/05/2005 | author: Alexandre Nikitenko | category: WW and n jets

**PHOTON + 3 JETS, QCD DIAGRAMS, COMPLETE TREE LEVEL SETS, COMPHEP, 850K EVENTS**  
QCD fake background to the light Higgs signal in the W,Z fusion (gamma gamma + 2 jets channel). 850K event sample generated by CompHEP 4.2p1  
published: 25/04/2005 | author: Mikhail Dubinin | category: Gamma and n jets

**PP->TT~ + GAMMA GAMMA, t1(2)->Wb->QQb, t2(1)->Wb->B L NU (L=E,MU,TAU) GENERATED BY MADGRAPH II**  
pp->tt~ + gamma gamma, t1(2)->Wb->qqb, t2(1)->Wb->b l nu (l=e,mu,tau) generated by Susanne Gascon with MadGraph II; gammas from ISR and FSR from top quarks  
published: 25/03/2005 | author: Alexandre Nikitenko | category: TOP

**EW TAU+JJ WITH MADGRAPH. VBF AND MTAAU PRESELECTIONS WERE APPLIED**

PUBLISH NEW DOCUMENT:  
non authorized author  
authorized author  
administrators area

HELP

SEARCH THIS SITE  
  
search

# The Major Features of LCG MCDB

- ♦ Powerful WEB interface with Content Management System for the authors of event samples and their users
- ♦ SQL structure of event sample documentation
- ♦ Power SQL/XML based search engine
- ♦ CASTOR as the native storage for the event samples
- ♦ Direct uploading of multiple files from AFS/CASTOR/GRID (wild-card characters are possible)
- ♦ Direct downloading of files from LCG MCDB with HTTP/CASTOR/GRID paths (URL) to file
- ♦ Flexible and reliable authorization system based on CERN AFS/Kerberos logins or LCG GRID certificates
- ♦ BackUp of samples and SQL information

# Terminology

**Article** – a document describing a set of event samples. This document is the main unit of the content of MCDB

**Category** – a branch of articles and physics models concerned a particular type of physical processes.

**Author** – an expert in Monte-Carlo generators. (S)he can upload new event samples to MCDB and describe them in corresponding articles

**User** – anybody who interests in new MC samples and agree with MCDB users license

# WEB Interface

## ◆ Users Area:

- Browse physics categories and articles with complete documentation on the available samples
- Search the MCDB with complex query
- Download available MC samples
- Post comments to the articles and check the previous discussions on the particular article/sample

# WEB Interface

## ◆ Authors Area:

- Upload new event sample(s)
- Document the event sample(s) in new article with help of templates system (pre-entered information)
- Publish new article in the Users Area
- Edit his/her previous articles or do the article publicly inaccessible for a while
- Answer users comments/questions to his/her articles

# LCG MCDB Subsystems

## ◆ SQL DB (MySQL)

- Provides the possibility to keep information in a very structured way
- Facilitate authors to keep complete set of information for the new MC sample
- Provides the possibility for the external interfaces to search information in MCDB
- Direct connection between sample and its description (documentation)

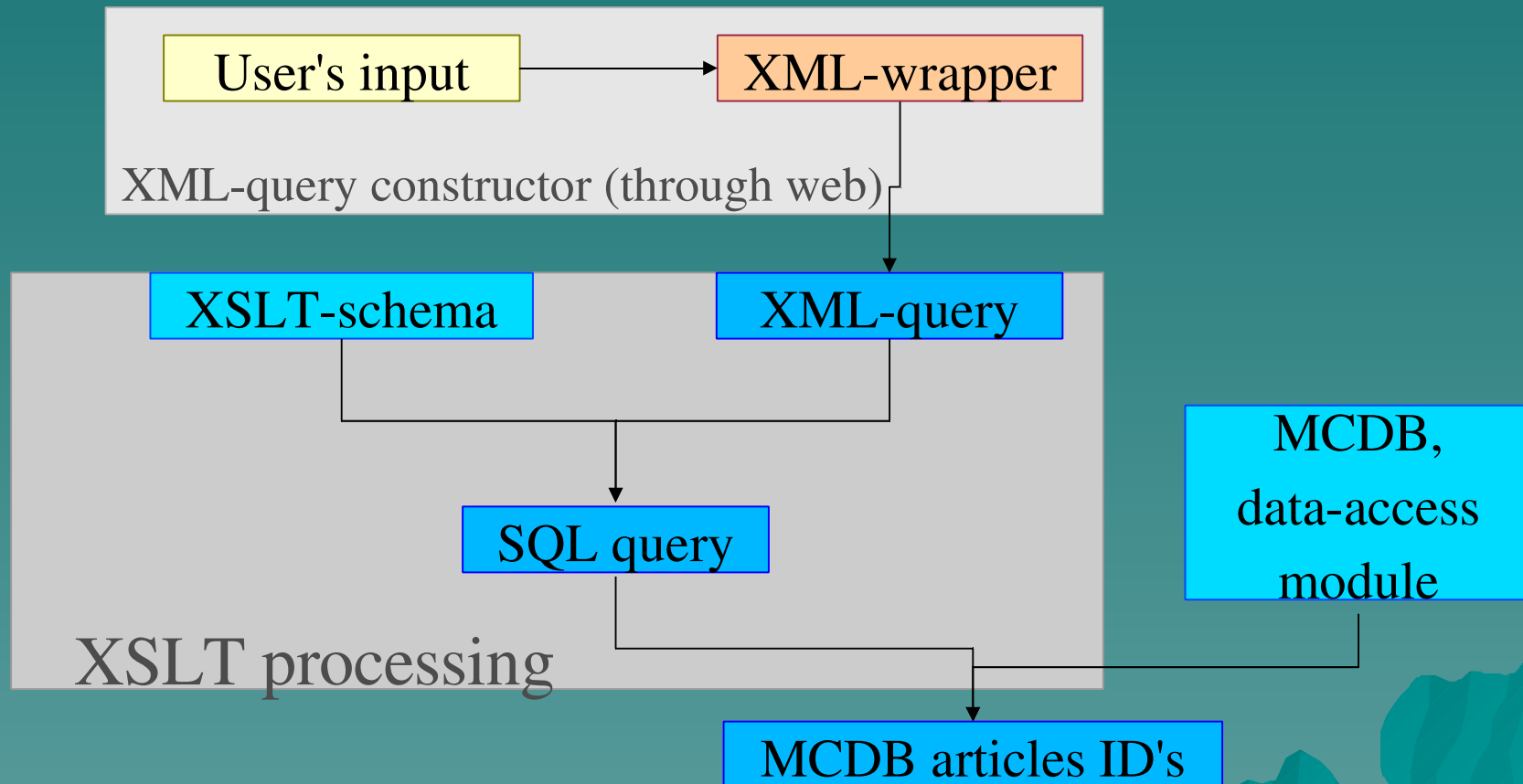


# LCG MCDB Subsystems

- ◆ CASTOR as a native storage for the samples
  - Native storage for the LHC Collaborations
  - Direct access to files is possible (not via WEB)
  - GridFTP access
- ◆ Authors authentication system
  - CERN AFS/Kerberos authorization (SSL secure)
  - LCG GRID certificates

# MCDB Search Engine

- *dynamic* query construction wizard (JavaScript/XML/SQL)
- Search by many possible criteria with complicated relations between DB -objects



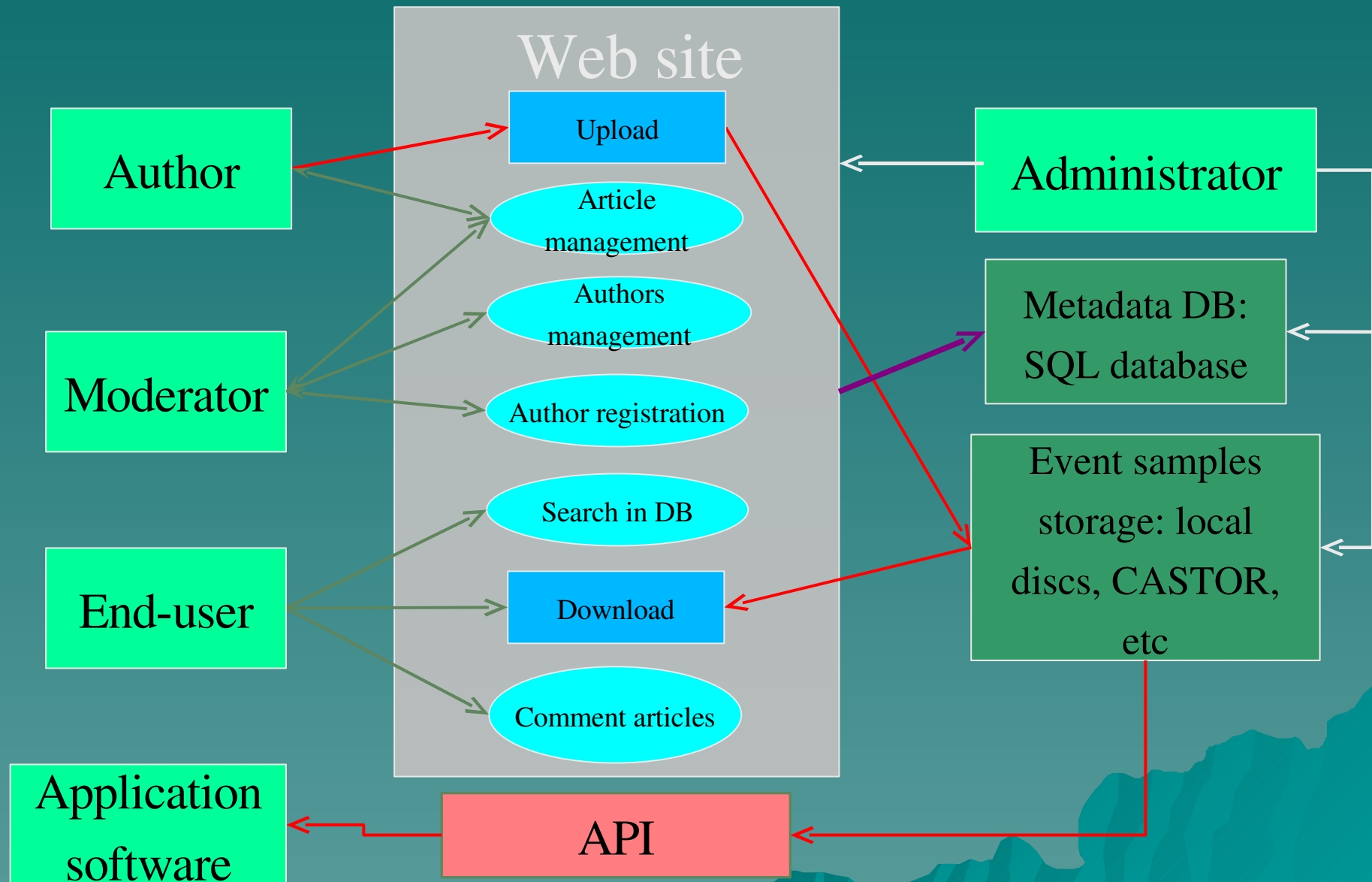
# LCG MCDB Subsystems (in progress)

- ◆ XML format of article (part of HepML)
- ◆ API to collaboration software
  - Set of C/C++/FORTRAN routines in collaboration environment for the direct access to the MCDB samples during the MC production. Based on HepML and direct URL to files
- ◆ HEPML, unified XML format of MC events

**Main stiff point of present development.**

  - Do possible an automatic interface to read, document MC samples and use it in the standard way in the collaboration software

# LCG MCDB Scheme



# PARAMETERS OF EVENT SAMPLE DESCRIPTION

- ◆ General information
  - Title
  - Abstract
  - Authors
  - Experiment and/or Group
- ◆ Physical process
  - Initial state
  - Final state
  - QCD scale
  - Process PDF
- ◆ Event files
  - Physical process
  - File name
  - Events number
  - cross section and uncertainty
- ◆ Used generator
  - Name and version
  - Description
  - Home page address
- ◆ Theoretical model
  - Name
  - Description
  - Set of parameters and their values with author's descriptions
- ◆ Applied cuts

# Documentation

- ◆ **Main Web Page** <http://mcdb.cern.ch>
  - ◆ Description of the project
  - ◆ Users and Authors HOW-TOs
  - ◆ Developers documentation
- ◆ **Wiki** <https://twiki.cern.ch/twiki/bin/view/LCG/LCGMCDB>
- ◆ **[hep-ph/0404241] LCG MCDB proposal**
- ◆ **[hep-ph/0604120] LCG MCDB report (p.200-204)**
- ◆ **Core software supported by LCG Software Project Infrastructure** (MySQL; CASTOR (RFIO); CGI; Perl; Apache)
- ◆ **Mailing lists - USERS:** [lcg-mcdb-users@cern.ch](mailto:lcg-mcdb-users@cern.ch)  
**Developers:** [project-lcg-mcdb@cern.ch](mailto:project-lcg-mcdb@cern.ch)

Login to the  
authors area

Search this site

Go

Advanced search

Main MENU

## Top physics

- Exotic production
- Single top
- QCD tt

## QCD

- B physics
- multijets
- Software
- Requests

## Higgs physics

## Gauge bosons

- Gamma and jets
- 2gamma and jets
- W and jets
- WW and jets
- Z and jets
- ZZ and jets

## FEEDBACK COMMENTS

Edit Delete

Please, provide your feedback comments on the LCG MCDB project, here

published: 16th May 2005, 13:40 | author(s): Lev Doudko

## PROCESS PP->H->ZZ->4MU

Edit Delete

The event sample simulates the inclusive Higgs production with decay to four muons (viz Z-bosons). It is created by the CompHEP Monte-Carlo generator. The Higgs mass value is 500 GeV. All used physics parameters and applied cuts can be found in a prt file stored in the article.

published: 19th Sep 2005, 09:42 | author(s): Alexander Sherstnev

## W+ AND 3 JETS

Edit Delete

These events were prepared by CompHEP in a special hash-model, where 2 first quark generations are unified to one of hash-quarks. See details in the article itself.

published: 29th Sep 2005, 14:51 | author(s): Alexander Sherstnev

## QCD Z(2TAU)+3J EVENTS WITH ALPGEN2

Edit Delete

Events for the Z+3jets production. Z-boson decays to tau lepton pair. The events were prepared with ALPGEN Monte-Carlo generator. They can be used for the MLM ME-PS matching procedure, since generated with ickkw=1. All generation parameters and cuts applied can be viewed in the qcd\_2tau3j\_unw.par parameter file.

published: 18th Oct 2005, 12:20 | author(s): Alexander Nikitenko

Login to MCDB

Login

Registration

Register as MCDB author  
Moderators list

Help and support

Help  
About MCDB  
Contact us

New author  
registration

Articles  
abstracts

Categories

# Advanced Search Query

Searching for Article, define conditions Experiment ☐ Show Info [FS] / [M]

+ Article X

Key words

any

Novelty

Inverse

Author X

Key words

any

Inverse

+ Experiment X

Inverse

Submit Query

PROCESS PP->H->ZZ->4MU

The event sample simulates the inclusive Higgs production with decay to four muons (viz Z-bosons). It is created by the CompHEP Monte-Carlo generator. The Higgs mass value is 500 GeV. All used physics parameters and applied cuts can be found in a prt file stored in the article.

published: 19th Sep 2005, 09:42 | author(s): Alexander Sherstnev ..

W+ AND 3 JETS

These events were preapred by CompHEP in a special hash-model, where 2 first quark generations are unified to one of hash-quarks. See details in the aricle itself.



Process pp->H->ZZ->4mu

Author(s): Alexander Sherstnev

Date of publication: 2005-09-19 09:42:37, Last correction: 2005-09-29 14:47:24

Categories: H and Z/W

Article ID: 34

Abstract:

The event sample simulates the inclusive Higgs to four muons (viz Z-bosons). It is created by generator. The Higgs mass value is 500 GeV, and applied cuts can be found in a prt file stored in the event file.

Author comments:

Process:  
p,p->H->mu+,mu-,mu+,mu-  
  
Subprocess:  
G,G->mu+,mu-,mu+,mu- (cross section = 0.6 pb)

http://mcdb.cern.ch/c

Process:

Name: pp --> mu,mu,mu,mu

PDF set: CTEQ5L

QCD scale: sqrt(S)

Model: SM, Feynman gauge

Generator: CompHEP, version: 4.2.1

Other information:

Cuts:  
5 GeV < Invariant\_mass\_1 < 400 GeV  
3 GeV < P<sub>t</sub>(μ)  
|η(μ)| < 2.4  
5 GeV < Invariant\_mass\_2 < 400 GeV

Event files

File: events\_MH500\_wHCHEP\_BM1.pev

Size: 28200663 bytes

Cross section: 6.0382E-04pb

Events number: 100000

Castor Path: waiting for migration (in a few hours)

Comments: Number of mixed reweighted events = 100000 (1 subprocess)

File: prt\_MH500\_wHCHEP\_Q2Shat

Size: 2682 bytes

Cross section:

Events number: 0

Castor Path: waiting for migration (in a few hours)

Comments: CompHEP kinematics module

View/post comments on article

Edit article

MODEL:

SM, Feynman gauge

NAME: SM, Feynman gauge

DESCRIPTION:

PARAMETERS:

PARAMETER	VALUE	DESCRIPTION
m <sub>s</sub>	0.117	
m <sub>b</sub>	4.85	
GG	1.21358	
m <sub>τ</sub>	1.77699	
S <sub>W</sub>	0.48076	
M <sub>HIGGS</sub>	115	
s <sub>12</sub>	0.2229	
m <sub>c</sub>	1.65	
M <sub>top</sub>	174.3	
EE	0.31345	
s <sub>23</sub>	0.0412	
m <sub>μ</sub>	0.10566	
s <sub>13</sub>	0.0036	
M <sub>Z</sub>	91.1876	

Article



Download events file

Comments to the article

Theoretical model and parameters

# Users Comments Interface

PROCESS PP->H->ZZ->4MU

 Edit  Delete

The event sample simulates the inclusive Higgs production with decay to four muons (viz Z-bosons). It is created by the CompHEP Monte-Carlo generator. The Higgs mass value is 500 GeV. All used physics parameters and applied cuts can be found in a prt file stored in the article.

published: 2005-09-19 09:42:37 | author(s): Alexander Sherstnev

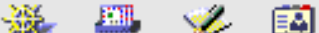
**Comments:**  
[Moderate]


YOUR NAME:

E-MAIL:

COMMENTS:

Send

 Done



# Documentation

## Help on LCG Monte-Carlo Data Base

### Full HOW-TO for MCDB authors

### Brief HOW-TO for new authors of LCG MCDB

If you want to share your new MC sample with other groups, please do the following:

- Register as a new author at the "Register New Author" at the right side menu of the main LCG MCDB web page, then wait for the confirmation e-mail
- Login to the LCG MCDB authors area at the "Login" link at the right side menu
- Choose "Create New Article" at the new right side menu
- Fill the fields in the documentation templates, which will appear (title, generator, theoretical model, cuts, ...)
- Upload your event files in the "Event Files" slice
- Click "Preview/Save" slice and check the box "Publish"

Now, your new article and samples are

Notes: 1. You need valid CERN AFS log

[Main Page](#) | [Directories](#) | [File List](#) | [File Members](#) | Search for

[cgi-bin](#)

## download.cgi File Reference

[Go to the source code of this file.](#)

### Functions

```
use CGI qw (:standard-private_tempfiles-oldstyle_urls)
use Fcntl qw (:DEFAULT:flock)
use POSIX qw (setsid floor ceil WNOHANG)
use File::Basename qw (basename)
use MCDB::Common qw (:DEFAULT:CGI_SCRIPTS)
if ($download_start)
unless (defined $file)
unless ($cache_id)
if ($location eq 'file')
```

### Variables

```
use strict
use constant BUFFER_SIZE => 131072
use constant REFRESH_TIME => 10
my $file_id = param 'file'
```

## MCDB authors HOW-TO

[Register as MCDB author](#)

[Change registration details](#)

[Use LCG digital certificate](#)

[Obtain a certificate](#)

[Login to MCDB](#)

[Publish new article](#)

[Edit articles](#)

[Upload event files](#)

[Remove article from the Web](#)

[Browser requirements](#)

[Get support](#)

[More details](#)

### ▲ Register as MCDB author

You can register as a new author following the link "[Register as MCDB author](#)" right side menu on the [main page](#) of LCG MCDB.

- Fill out the registration form. All fields are obligatory (and at least one of "AFS login" or "DN from LCG certificate" should be specified).
- Submit the form and wait for confirmation e-mail (in a few work days).

### ▲ Change registration details

# New Authors HOW-TO

- (1) Register as a new author, wait for the confirmation e-mail
- (2) Login to the LCG MCDB authors area
- (3) Choose "Create New Article" in the authors menu
- (4) Fill the fields in the documentation templates, which will appear (title, generator, theoretical model, cuts, ...)
- (5) Upload your event files in the "Event Files" slice
- (6) Click "Preview/Save" slice and check the box "Publish"

## Notes:

1. Author needs valid CERN AFS login or LCG digital certificate to be authorized;
2. Author can store unfinished articles and resume to correct them in any moment;
3. Author can edit articles already published on the Web or do the documents publicly inaccessible for a while.

- Form to send a request for the authorization as new LCG MCDB author.

- Necessary only if you want to upload new MC samples

A screenshot of a web browser window displaying the 'MCDB registration' form. The form has a title 'MCDB registration' and a subtitle 'Please provide following information to register'. Below the subtitle, it states 'All fields are required (and at least one of \* )'. The form contains several input fields: 'First name:', 'Last name:', 'CERN AFS login: \*', 'DN from LCG certificate: \*', 'Experiment:', 'Group:', 'Organization:', and 'E-mail:'. At the bottom of the form, there is a note: '\* At least one of fields Login or DN must be filled. To get DN you can examine you personal LCG certificate or load it to your browser (instructions [here](#))'. Below the note are two buttons: 'Register' and 'Cancel'. The browser's taskbar is visible at the bottom, showing icons for various applications and a 'Done' button.

## MCDB registration

Please provide following information to register  
All fields are required (and at least one of \* )

First name:

Last name:

CERN AFS login: \*

DN from LCG certificate: \*

Experiment:

Group:

Organization:

E-mail:

\* At least one of fields *Login* or *DN* **must** be filled.  
To get DN you can examine you personal LCG certificate or load it to your browser (instructions [here](#))

Done

After authorized login to MCDB the additional entries will appear at the right side menu, according to the author permissions

**MCDB - MonteCarlo Database**

Search this site  
Go  
Advanced search

**Main MENU**

- Top physics
- QCD
  - Software
  - Requests
- Higgs physics
- Gauge bosons

**FEEDBACK COMMENTS** Edit Delete

Please, provide your feedback comments on the LCG MCDB project, here

published: 16th May 2005, 13:40 | author(s): Lev Doudko

**PROCESS PP->H->ZZ->4MU** Edit Delete

The event sample simulates the inclusive Higgs production with decay to four muons (viz Z-bosons). It is created by the CompHEP Monte-Carlo generator. The Higgs mass value is 500 GeV. All used physics parameters and applied cuts can be found in a prt file stored in the article.

published: 19th Sep 2005, 09:42 | author(s): Alexander Sherstnev

**W+ AND 3 JETS** Edit Delete

**Moderator entry**

- User management
- Categories management
- View new comments

**Author entry**

- Create new article
- Edit articles

**Help and support**

- Help
- About MCDB
- Contact us

0000230 times visited since October 2005

MCDB © 2005 Monte-Carlo Generators group, LCG, CERN



# Add/Edit Article link is the gate to the article template system

MCDB - Monte-Carlo DataBase New window - Close window - Help

Article creating New generator New process New model New cut

General information Event files Generator Model Process Cuts Preview/save

**ARTICLE TITLE:**

Process pp->H->ZZ->4mu

**CATEGORIES:**

- Gauge bosons
- 2gamma and jets
- Gamma and jets
- W and jets
- WW and jets
- Z and jets
- ZZ and jets
- Higgs physics
- H and jets
- H and Z/W**
- QCD
- B physics
- multijets
- Requests
- Software

**GROUP:**

Higgs PRS group

**EXPERIMENT:**

CMS

**OTHER GROUP:**

**RESPONSIBLE PERSON:**

**GROUP DESCRIPTION:**

**PRIMARY AUTHOR:**

Alexander Sherstnev, SINP MSU

**CO-AUTHORS:**

- Alexander Nikitenko, Imperial College, University of London
- Alexander Sherstnev, SINP MSU
- Anton Gusev, IHEP
- Filip Moortgat 2770, CERN
- Filippo Ambroglini, University and INFN Perugia
- Harinder Singh Bawa, Panjab University Chandigarh
- Lucia Silvestris, INFN-Bari
- Mikhail Dubinin, SINP MSU
- Sergey Belov, JINR
- Vladimir Uzhinsky, JINR, LIT

**ABSTRACT:**

The event sample simulates the inclusive Higgs production with decay to four muons (viz Z-bosons). It is created by the CompHEP Monte-Carlo generator. The Higgs mass value is 500 GeV. All used physics parameters

# Event files slice to manage event files attached to the article

MCDB - Monte-Carlo DataBase

New window - Close window - Help

Article creating New generator New process New model New cut

General information Event files Generator Model Process Cuts Preview/save

FILES MANAGEMENT: LIST :: UPLOAD :: IMPORT

:: UPLOADED FILES:

File	Size	Events	C-Section	CS-Errors	Edit
<input type="checkbox"/> kis_user.F	5192	0	0	0	Edit
<input type="checkbox"/> tq_tqb_tot.pev53461813171373	27.66 pb	0.04			Edit
<input type="checkbox"/> prt_tq.tgz	6065	0	0	0	Edit

EVENTS NUMBER:

CROSS SECTION:

CROSS SECTION ERROR:

COMMENTS:

Set description

Wild-cards  
are possible

MCDB - Monte-Carlo DataBase

New window - Close window

Article creating New generator New process New model New cut

General information Event files Generator Model Process Cuts Preview/save

FILES MANAGEMENT: LIST :: UPLOAD :: IMPORT

:: IMPORT FILE(S) FROM AFS OR CASTOR

Show as list / table

Copy monitor

Perm	Items	Owner	Group	Size	Month	Day	Time	File
drwxr-xr-x 2	root	root	0	Oct	25	2004	grid	
drwxr-xr-x 1	root	root	0	Dec	17	2005	castor	
-rw-r--r-- 1	root	root	0	Aug	13	2004	foo	



# MC generator and Physics Process description slices

MCDB - Monte-Carlo DataBase New window - Close window - Help

Article creating | New generator | New process | New model | New cut

General information | Event files | Generator | Model | Process | Cuts | Preview/save

**GENERATOR:**  **VERSION:**

[Other generator/version](#)

**DESCRIPTION:**

Old version of CompHEP with old format of event files (compatible with interface implemented to CMKIN)

**HOME PAGE:**

<http://theory.sinp.msu.ru/comphep>

MCDB - Monte-Carlo DataBase New window - Close window - Help

Article creating | New generator | New process | New model | New cut

General information | Event files | Generator | Model | Process | Cuts | Preview/save

**PROCESS:**

PP → MU,MU,MU,MU, PDF: CTEQ5L, QCD SCALE: SQRT(S)

[Describe new](#)

pp → tT+2Jet, PDF: CTEQ6M, QCD scale: 175  
ANY → ANY, PDF: ANY, QCD scale: ANY  
pp → tau,tau,j,j,j, PDF: CTEQ5L, QCD scale: MZ2+pT,Z2  
pp → W,j,j,j, PDF: CTEQ5M1, QCD scale: MW  
pp → mu,mu,mu,mu, PDF: CTEQ5L, QCD scale: sqrt(S)  
pp → W+ and 3 jets, PDF: CTEQ5M1, QCD scale: M(W-boson)=79.958 GeV, Alpha\_s(MZ) = 0.1185  
pp → mu,mu,j,j, PDF: CTEQ5L, QCD scale: 2\*mz  
pp → tau,tau,j,j,j, PDF: CTEQ5L, QCD scale: MZ2+pT,Z2

→  PDF:

MCDB © 2005 Monte-Carlo Generators group, LCG, CERN Username: Lev Doudko, Permission: moderator Date: Wed Nov 23 20:14:18 2005

MCDB - Monte-Carlo DataBase

Article creating | New generator | New process | New model | New cut

General information | Event files | Generator | Model | Process | Cuts | Preview

**MODEL:**

SM, Feynman gauge

**NAME:** SM, Feynman gauge

**DESCRIPTION:**

**PARAMETERS:**

PARAMETER	VALUE	DESCRIPTION
$m_s$	0.117	
$m_b$	4.85	
GG	1.21358	
$m_t$	1.77699	
$S_W$	0.48076	
$M_{HIGGS}$	115	
$s_{12}$	0.2229	
$m_c$	1.65	
$M_{top}$	174.3	
EE	0.31345	
$s_{23}$	0.0412	
$m_\mu$	0.10566	
$s_{13}$	0.0036	
$M_Z$	91.1876	

Physics model  
parameters  
and applied cuts slices

MCDB - Monte-Carlo DataBase

Article creating | New generator | New process | New model | New cut

## Create new set of cuts

MIN VALUE      OBJECT      MAX VALUE

<  < 
[Remove](#)

[Cut description](#)      OTHER:  other object      ☐ Include region ☐ Exclude region

HTML:

[Add cut](#)

[Save](#)      [Undo](#)      [Reset](#)

MCDB © 2005 Monte-Carlo Generators group, LCG, CERN    Username: Lev Doudko, Permission: moderator    Date: Wed

# Conclusion

- ◆ New flexible system to keep MC files is ready
- ◆ We discuss development of CMS API (Hector Naves)
- ◆ We need a feedback from the Collaborations:
  - Necessary corrections/changes in MCDB?
  - Contact persons to develop API to the collaboration environment (ATLAS?) ?
  - New useful features you want us to implement?