Production tasks and (computing) support for other activities

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Introduction

This talk is meant to give a flavor of magnitude and scope of operations that need to be supported by the computing infrastructure.

Major RPP production tasks

- Literature search;
- Encodings:
  - Listings / Summary tables / Conservation Laws;
- Verifications;
- Reviews;
- Monitoring progress;
- Book production:
  - preproduction;
  - production;
  - post-production;

Major RPP production tasks (cont.)

- Web posting of RPP;
- Booklet production;
- Diary production (technical assistance);
- Errata;

Other computing tasks

- Improving RPP production environment structure;
- Developing utilities and new program features to improve quality of RPP and efficiency of operation;
- Configuration / maintenance /monitoring of backups and HPSS archives;
- RPP ordering system maintenance;
- PDG mirrors updates / setup;
- Web hits statistics;

Other computing tasks (cont.)

- RPP statistics;
- Prepare redesigned RPP web pages;
- Maintain authors list;
- Support outreach web postings, e.g. universeadventure.org;
- Address some users questions / comments directed to PDG;
- Support for specific tasks:
  - Web pages for Physics Division Jobs postings;
  - APS California Section meeting (online registrations, etc.);

Example: Book Production

- Perform final:
  - fits;
  - averages;
  - momenta calculation (pdecay program);
  - other calculations, e.g. decay times (fincom program);
  - create ideograms;
- Prepare:
  - history plots;
  - abstract;
  - authors list;

Example: Book Production (cont.)

- Prepare (cont.):
  - consultants list and other parts of introduction;
  - highlights of the edition;
  - illustrative key;
  - list of abbreviations (abbrev program);
  - summary tables for each sections: bosons, leptons, etc.;
  - tabular summary of mesons and baryons;
  - tests of conservation laws (conlaw program);

Example: Book Production (cont.)

- Prepare (cont.):
  - individual reviews;
  - Monte Carlo numbering tables part of MC review;
  - listings with ideograms and data driven reviews;
  - contents: main and per section;
  - compose index;
  - setup color figures section;
- Pagination (manual formating);
- Quality control;
- Post for materials for the publisher;
- Handle communications with the publisher;

Literature search

Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://pdg.lbl.gov/rpp/encoders/2005/sep-2005/check_sep-19-2005.html

Firefox Help | Firefox Support | Plug-in FAQ | SPIRES | PDG | rppRef | Google News | Google | Seminars | editor | PDG Monitor

	found	unknown	new	WOHLSTAB	09/14/2005	
EPJ A23 523	BARU		05	DOSER	M999	
	found	unknown	new	DOSER	10/04/2005	
EPJ A24 275	LAWALL		05	WOHLUNSTAB	B999	Miscellaneous $
	found	unknown	new	WORKMAN	09/14/2005	gamma p --> K0$
EPJ A24 437	KALASHN					
	found	u				
EPJ A25 107	BUGG					
	found	u				
EPJ A25 263	LI					
	found	u				
EPJ C38 1	ABDALLA					
	found	u				
EPJ C39 253	ASSMANN					
	found	u				
EPJ C40 317	ABBIEND					
	found	u				
EPJ C40 343	AKOPDZH					
	found	u				

Done

SPIRES-HEP: FIND J EPHJA,A24,275 - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.slac.stanford.edu/spires/

Firefox Help | Firefox Support | Plug-in FAQ | SPIRES | PDG | rppRef | Google News »

MEASUREMENT OF THE REACTION GAMMA P ---> K0 SIGMA+ AT PHOTON ENERGIES UP TO 2.6-GEV.

R. Lawall *et al.*. Apr 2005. 15pp.

Published in **Eur.Phys.J.A24:275-286,2005**

e-Print Archive: **nucl-ex/0504014**

References | LaTeX(US) | LaTeX(EU) | Harvmac | BibTeX | Keywords | Cited 3 times

Abstract and Postscript and PDF from arXiv.org (mirrors: au br cn de es fr il in it jp kr ru tw uk za aps lanl)

Journal Server

Euro.Phys.J.A Server

Reaction Data (Durham)

Done

Literature search (cont.)

- Input new literature search into database;
- Assign papers if multiple encoders per particle;
- Create lists for encoders end overseers;
- Post new literature assignments on web;
- Verify all links point to papers in SPIRES or journals;
- Notify SPIRES about not available RPP papers;

Errata

Errata for the 2004 Review of Particle Physics - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://pdg.lbl.gov/2004/html/errata_2004.html

Firefox Help | Firefox Support | Plug-in FAQ | SPIRES | PDG | rppRef | Google News | Google | Seminars »

- Page **261** of the full Review (page 21 of the Web version below):

  Particle detectors PS PDF

  - (July 22, 2004): The 'Time-projection chambers' author is: M.T. Ronan

- Page **312** of the full Review (page 9 of the Web version below):

  Plots of cross sections and related quantities PS PDF

  - (June 25, 2004): Labels [9] and [10] in figure 40.9 should read:
    [9] IHEP-JINR
    [10] IHEP-ITEP

- Pages **524, 548, 561, 582** of the full Review (pages 8, 8, 9, 8 of the Web versions below):

  Meson Particle Listings

  f0(980) PS PDF
  f0(1370) PS PDF
  f0(1500) PS PDF
  f0(1710) PS PDF

  - (May 6, 2004): The reference KLEEFELD 02 PR D66 034007 was corrected.

- Page **638** of the full Review (Web version below: page 6 of the review, page 34 of the listings):

  Meson Particle Listings

  CP violation in K_L decays PS PDF

  - (December 13, 2004): Corrected Eq. (10).

- Page **664** of the full Review (Web version below: page 2 of the review, page 19 of the listings):

  Meson Particle Listings

  Review of Charm Dalitz-Plot Analyses PS PDF
  D+- PS PDF

  - (August 6, 2004): In Table 1. the third row from the bottom should contain also reference to E687[30]

- Page **666** of the full Review (Web version below: pages 7,8 of the review, pages 26,27 of the listings):

  Meson Particle Listings

Done

Errata (cont.)

- Tricky for Listings if new particle entries encoded:
  - the database entries have changed;
  - need to produce listings with corrected entries without new encodings;
  - difficult to work with the old TeX file;
  - difficult to work with the modified database;
- New system minimized the problem with a copy of frozen Edition Database;

Summary

This talk was meant to give a flavor of magnitude and scope of operations that need to be supported by the computing infrastructure.