

Procedures

The process of producing the
Review of Particle Physics

Literature Search

**Complete Literature Search by two people of 20 journals
(650 papers per edition predominantly from
PL, PRL, PR and EPJ)**

Enter Literature search results in database

**Distribute assignments of papers to
Encoders and Overseers**

Encoding

**Each Paper Read Carefully by Two People:
by encoder and by overseer**

Encoder and Overseer initiate data entry

**Encoding data entered into database:
Sections have very different formats**

**Create new sections, delete sections,
reorganize/combine sections**

Reviews

Write/edit Reviews describing content of and/or problems in a given section

Referee each review and note (3-5 referees)

Place reviews into system so can produce book and web versions

Final processing

Edit all sections for consistency, errata, quality, etc.

**Request Verification of every entry
from each experiment**

Enter corrections/changes from Verifications

**Calculate Averages, Fits and Best Limits.
Many of these are unique by section**

Prepare Summary Table

**Prepare Conservation Laws table
(with impact on Listings and Summary Table)**

Production

Post Listings and Reviews on web

**Produce 1344-page book of Summary Tables,
Listings, Reviews**

Produce web versions of everything in book

**Produce 320-page Booklet with Summary Tables
and abridged version of reviews**

Quality Assurance

**The HEP Community and many others
depend on us for accuracy and integrity**

- **All reviews have 3-5 referees.**
- **Every item of data that is entered is checked by the experiments (700 people help).**
- **PDG Advisory Committee reviews all PDG operations**

We strive to only report what is a fair consensus of the community.
E.g.- For the growing B sections, the three encoders are from Belle, BaBar, and Tevatron.

We invite comments from the collaborations on many sections.

We organize mini-workshops when we need to consider expanded and improved coverage of a section (such as D mesons, B mesons, neutrinos, tau leptons, CKM, extra dimensions,)

Hiroaki Aihara – Chair	(U. of Tokyo)
Gustaaf Brooijmans	(Columbia)
Patrick Janot	(CERN)
Deborah Harris	(Fermilab)
Gilad Perez	(Stony Brook)

Peter Zerwas

Taka Kondo

Michael Turner

Michel della Negra

Jonathan Dorfan

Ann Kernan

Lincoln Wolfenstein

Gary Feldman

Rudiger Voss

Persis Drell

Dieter Schlatter

Paul Langacker

Mark Wise

Stephen Ellis

Chris Quigg

Mike Whalley

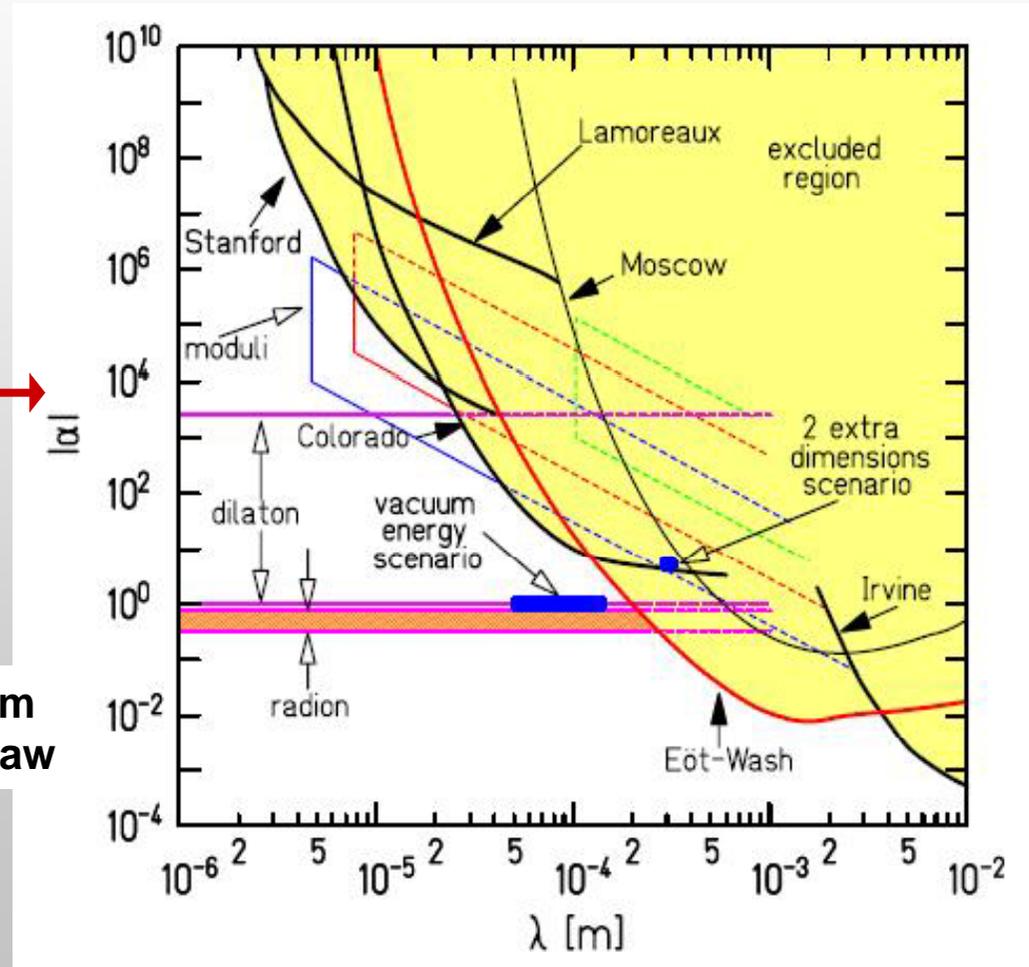
Jonathan Rosner

Fred Gilman

Workshops lead to improved coverage

- Neutrino
- CKM
- D Meson
- τ lepton
- Extra-dimensions →
- Statistics

Constraints on deviations from Newton's gravitational force law



Coordination with working groups at **LEP, Tevatron** and **B-factory** on:

- Electroweak fits,
- B lifetimes, B mixing,
- V_{cb} and V_{ub}
- top quark mass, etc.

PDG role in:

- CKM workshops (CERN 2002, Durham 2003, San Diego 2005)
- Statistics workshops, etc.