

# Budget and Related Issues

Historically, research by PDG members has been recognized as the secret to the success of PDG.

It is the key ingredient that assures that RPP is produced by highly qualified active physicists.

- Jean-Francois Arguin – **ATLAS (departed LBNL)**
- Juerg Beringer – **ATLAS**
- Kathy Copic – **ATLAS**
- Cheng-Ju Lin – **Daya Bay**
- Weiming Yao – **CDF/ATLAS**
- Michael Barnett – **Theory**
- Alex Cerri – **ATLAS (visitor for this year)**

Of 193 authors, **nine** are Berkeley PDG members (including the 3 retirees).

Over the past 20 years, PDG has been outstanding in outsourcing everything possible to others in our community.

But there has to be a central organization that:

- coordinates everything,
- drives the schedule,
- assures quality,
- controls the outsourcing, and
- produces the products.

**Quality control has to be the critical path.  
The community relies on us.**



**This requires central coordination.**

**With 193 authors, there are many points of failure.  
LBNL's job is to oversee all and make sure  
there is no failure.**

Other funding (national and international).  
In-kind contributions and deliverables.

**NSF:** Direct funding at proportional level (10-11%)  
at scale of products used by NSF-supported people.

**Japan:** Direct funding at scale of those received;  
In-kind to cover expenses of Japanese members.

**CERN:** Pays for products shipped to CERN and distributed  
throughout Europe.

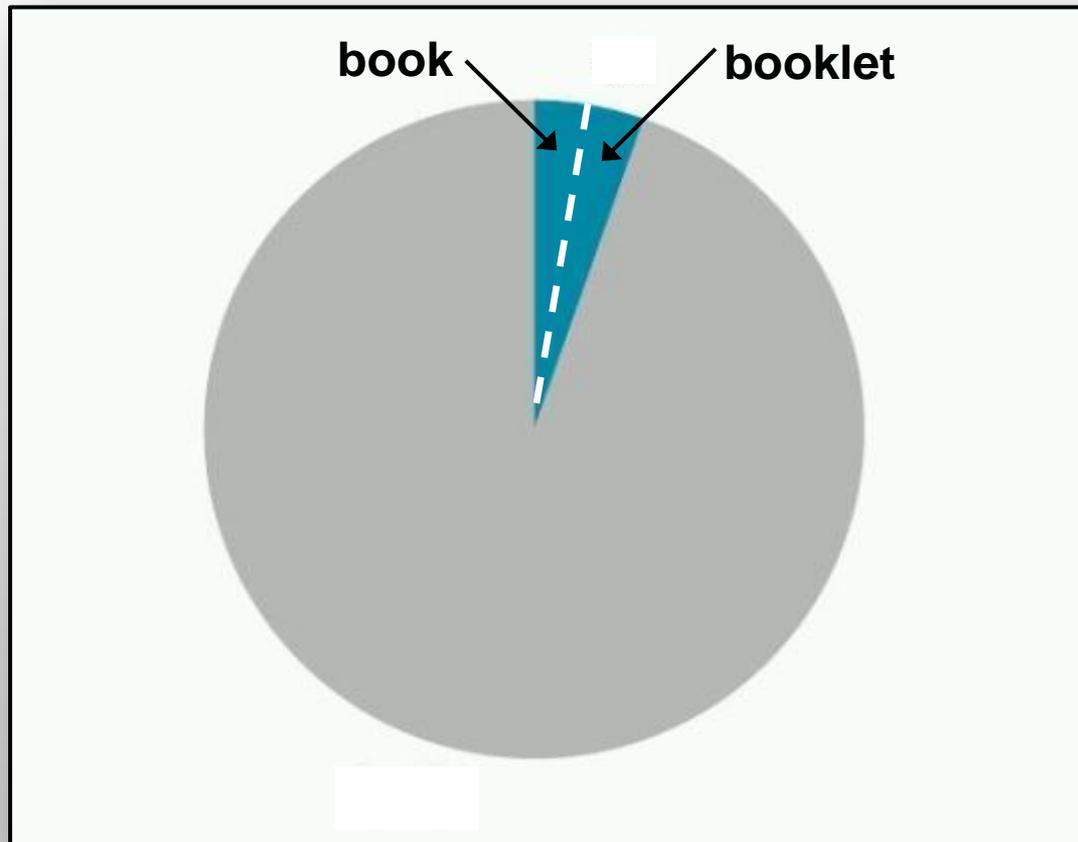
## In-kind contributions and deliverables.

- The 184 non-Berkeley PDG authors are all making in-kind contributions, since they are not paid, but work typically 5% time on PDG. Their deliverables are encoding of Data Listings and writing of Reviews.
- The CERN Meson Team has the entire sections on strongly decaying mesons as their deliverable.
- SLAC has a deliverable of linking SPIRES to RPP.
- Mirror sites deliver the mirrors.

But as discussed above, central coordination must remain.



## Fraction of PDG budget for printing



Relative cost of  
Book and Booklet  
depends on  
publisher

First approximation:  
Book is 2.5%  
for most years.

2010 it was **zero**.

# The End

## of budget and personnel

# Summary

## Staff for *Review of Particle Physics*

### Physicists:

- 6 half-time (3 FTE)
- 3 retired part-time

Editor/physicist

Administrative Assistant

**20-year-old system replaced.**

**New capabilities for 21<sup>st</sup> century.**

**Computing upgrade – 2 FTEs for three years**

**New half-time programmer to implement and maintain upgraded computing system.**

**“The LBNL core group is considered essential for the success of the collaboration, and its lean and dedicated qualities have been almost universally recognized for some time. ... The core LBNL-based PDG group displays exceptional effort and expertise in their many PDG related activities and responsibilities.”**

“Reviewing the proposal for the PDG is somewhat **akin to reviewing motherhood**. The services that have been provided by this group to the world community of high energy physicists is of **inestimable value**. It is carried out with great competence, which accounts for its wide acceptance.”

“The work of the PDG is **absolutely necessary** for rapid progress of elementary particle physics. Without it, the field would be very fragmented and achieving consensus would be very difficult.”

“They have anticipated needs of HEP scientists extremely well. The data provided by the PDG is the best I know about in all fields. Everybody in HEP makes use of the review and many scientists outside HEP.”

**“It would be hard to imagine HEP without it, and I do not know any other group capable of this effort. The group competence and past accomplishments are excellent.”**

**“The Particle Data Books become **"bibles"** to researchers in particle physics. Without this work, progress would be slower.”**

**... an extremely valuable resource to the particle physics community. This effort is **invaluable** and must be supported. This is constantly being improved and expanded.**

**PDG provides a vital, dynamic, innovative service to the HEP community.**

**The HEP community depends on PDG to provide standards and to assure integrity and quality in summarizing particle physics.**

# The End