

HIGHLIGHTS OF THE 2008 EDITION OF THE REVIEW OF PARTICLE PHYSICS

- 645 new papers with 2778 new measurements.
- Latest from B -meson physics: 182 papers with 859 measurements: CP violation, B_s mixing, determination of V_{cb} , and V_{ub} CKM elements, new b -hadron states, *etc.*
- Significant improvements in $K^+ \rightarrow 3\pi$ Dalitz slope parameters, $K_{\ell 3}^+$ branching ratios, and K_L form factor measurements.
- Many new results in the sections on strongly-decaying mesons: 152 papers with 816 measurements, including new charmonium-like states properties and review.
- First good evidence for $D^0 - \overline{D}^0$ mixing. Major update to the review on this subject.
- Substantial improvement in D_s^+ branching fractions.
- The Table of Astrophysical Constants and Parameters has been extensively revised and modernized.
- 108 reviews (most are revised or new).
- Major update of the reviews on:
 - Higgs Bosons;
 - CKM Quark Mixing Matrix;
 - Supersymmetry (part II, experiment);
 - Axions.
- New sections in Particle Detector review on Hadron Calorimeters and on Gaseous Detectors, with subsections on energy loss and charge transport in gases, Multi-Wire Chambers, Micro-Pattern Gas Detectors, TPC's and TRD's.
- Cosmic ray review: Latest measurements of the highest energy cosmic rays from the Auger detector.
- New section on diffractive deep inelastic scattering in the "Structure functions" review.
- New CPT Invariance Test in Neutral Kaon Decay review.

See pdgLive.lbl.gov for online access to PDG database.

See pdg.lbl.gov/AtomicNuclearProperties for Atomic Properties of Materials.

COLOR VERSIONS OF MANY FIGURES AVAILABLE AT END OF BOOK.