Revised by G.S. Wagman and B. Armstrong, June 1994

The Full Listings in this *Review of Particle Properties*, as well as other particle physics databases, are computer accessible. Some of the databases help find papers of interest, while others contain actual numerical data. Here we describe some databases maintained at LBL, SLAC, CERN, Durham, IHEP, KEK, and Yukawa, and how to start using them.

1. High-Energy Physics Databases

This section describes publicly accessible databases of interest to high-energy physicists. See Table 1 for availability, contacts, and user guides. For databases that are derived from other databases, see also the description of the originating database. See Section 2 for information on accessing these databases.

RPP contains the Full Listings from this *Review of Particle Properties*. Through user-friendly menus, users may query by paper, particle, mass range, quantum numbers, or detector, and can select specific properties or classes of properties like masses or decay parameters. All other relevant information (*e.g.*, footnotes and references) is included. Complete instructions are available online. The database is completely updated in the Summer of even-numbered years before publication of the *Review*, and is less thoroughly updated in the Summer of odd-numbered years.

The Particle Data Group provides, through the World-Wide Web (see Section 2.2), full-text PostScript of the *Review of Particle Properties*, excluding the Full Listings. For example, users may access the articles, tables, figures, and formulae.

Other High-Energy Physics Databases:

- ***BOOKS*** contains bibliographic summaries of more than 20,000 textbooks, conference proceedings, lecture-notes, monographs, and serials covering high-energy physics and related subjects.
- ***CONF (CERN)***, a subset of ***LIB***, contains forthcoming conferences of interest for high-energy physics and accelerator research and contains past conferences back to 1986.
- ***CONF (SLAC)*** contains almost 5,000 listings of conferences, schools, and meetings of interest to high-energy physicists. Information on forthcoming conferences is entered regularly, with detailed descriptions and links to further World-Wide Web information when available.
- ***CS***, regularly updated from the ***REACTIONS*** database, contains data from CERN-HERA, UCRL, and LBL cross-section compilations covering 1950 to the present.
- ***DIR***, the Directory of Research Institutes in High Energy Physics, contains addresses, telephone, fax, and telex numbers, and e-mail nodes, as well as brief information on research programs and accelerators.

  To obtain ***DIR*** in a Filemaker PRO format for Macintosh computers, contact the SIS Secretariat at CERN or Wolfgang Simon (`ISI@CERNVM.CERN.CH`).
- ***DOCUMENTS*** contains two groups of keys to experimental elementary particle physics literature:

  (1) Bibliographic: ID, references, year of preprinting or publication, authors and affiliations, document title, experiment number, collaboration name, and related references.

  (2) Topical: beam particle, target particle, reactions, particles in the final states of reactions, momenta in initial states, types of data obtained, particles whose property has been measured, accelerator and/or detector, and initial state polarization.

  It covers 1895 to the present, with coverage since 1950 being more complete, and is updated monthly. The report *A Guide to Experimental Elementary Particle Physics Literature* [1] is produced from it.
- ***E-MAIL IDS***, derived from ***HEPNAMES***, contains e-mail addresses of many people working in high-energy physics.
- ***EXPERIMENTS*** contains summaries of approved experiments at major laboratories. It covers approximately 1975 to the present, with coverage since 1980 being more complete. It is searchable by experiment number, author, accelerator, detector, reaction, beam momentum, journal paper, and other items. The report *Current Experiments in Elementary Particle Physics* [2] is produced from it.
- ***HEP-PREPRINT*** is a collection of bulletin board archives reserved for high-energy physics preprints. It includes ***HEP-EX*** for experimental HEP preprints (since April 1994), ***HEP-LAT*** for lattice/computational preprints (since December 1991), ***HEP-PH*** for particle phenomenology preprints (since March 1992), and ***HEP-TH*** for string/conformal/field theory preprints (since August 1991). Other archives are described in the `HELP` facility of these archives.
- ***HEP (SPIRES-HEP)***, a joint project of the SLAC and DESY libraries, contains 270,000 bibliographic entries on particle physics papers (journal articles, preprints, reports, theses, *etc.*). It covers 1974 to the present and is updated daily. It is searchable by author, institution, title, topic, report number, citation, bulletin board number, and other bibliographic items. It is an indexing and access tool (via the World-Wide Web) to more than 12,000 full-text PostScript documents, including bulletin board articles processed jointly by the SLAC and DESY libraries and the CERN publication group.
- ***HEPNAMES*** contains 23,000 e-mail addresses of many people working in high-energy physics.
- ***INSTITUTIONS*** contains 3,000 addresses and, often, phone and fax numbers of high-energy physics-related institutions.
- ***LIB*** contains the CERN library's catalogue of books, reports, preprints, and other information.
- ***PP*** contains information on particle properties derived from the Summary Tables in this *Review of Particle Properties*.