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PROGRAMS for CONSULTING NUBASE: NUCLEUS and JVNUBASE

F. Bouvot, E. Durand, S. Audi and G. Audi
Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse,CSNSM, IN2P3-CNRS, Bâtiment 108, F-91405 Orsay Campus, France

The first NUBASE evaluation was published in September 1997 (Nucl. Phys. **A624** p.1-124). The files related to this publication are available from the "Atomic Mass Data Center" AMDC at http://csnwww.in2p3.fr/amdc/. To allow stable reference data for calculations, these files will NOT be updated. Updated data from NUBASE can regularly be obtained through two programs (NUCLEUS and JVNUBASE) that display its contents in a user friendly environment, allowing thus the AMDC user to check for the latest available information in NUBASE.

For PC computers, the program NUCLEUS announced at ENAM'95 is now freely distributed through the AMDC. NUCLEUS has been further developed and integrates now an "Educational" display. The later has been written in collaboration with the "Palais de la découverte" museum in Paris, to be used for the "Centenial of the discovery of the Radioactivity" exhibition program (http://www.crihan.fr/palais_de_la_decouverte). For optimal maintenance it was decided to have a unique program with an option to choose between the "Educational" and the "Scientific" versions.

Directly from the AMDC Web: JVNUBASE is a JAVA applet that can be run from any JAVA compatible browser. At the Lund Web site, Peter Ekström has also written a simpler program to display the data of NUBASE.

In view of developping the educational aspects of Nuclear Physics, a 3D-engine, written in DOS-assembler, is presently under development. It will allow an interactive flight over the valley of stability. A pre-version will be available for demonstration during the conference. Ultimately, this function will be integrated to the "Educational" version of NUCLEUS.