

## Proposal for the Extended EXFOR List of Nuclear Physics Institutions

(B. Pritychenko, 2017-05-16, Memo CP-C/455)

Several ENDF evaluations contain obsolete nuclear physics laboratory names such as JAERI instead of JAEA. Further analysis of nuclear structure data compilations may produce several names for the Berkeley lab: LBNL, LBL, Lawrence Radiation Laboratory and UC Radiation Laboratory at Berkeley that should not be confused with the Lawrence Livermore National Laboratory (University of California Radiation Laboratory at Livermore). These historic names create a certain degree of confusion among nuclear data users.

In light of full disclosure it makes a perfect sense to create an extended EXFOR List of Nuclear Physics Institutions that would contain all relevant historic names, time spans of nuclear reaction publications, exact postal and Web addresses for the existing and terminated institutions. List generation would not represent a problem because the EXFOR database already contains a compilation of 1216 nuclear physics institution codes that would have to be revisited and updated.

This project would engage all EXFOR compilers around the world and provide enormous benefits to nuclear physics community that is involved in the similar efforts [1-3]. The NRDC list would complement the IUAP Report 41 list of Research Facilities in Nuclear Physics [4]; the report authors are shown in Fig.1. This, complementary to the Report 41, product would supply unique historic information and demonstrate a wide applicability of EXFOR compilations. It would make sense for the NRDC to produce such list and provide regular Web updates.

### WG9: INTERNATIONAL COOPERATION IN NUCLEAR PHYSICS (ICNP)

Working Group 9 (WG9), the International Cooperation in Nuclear Physics (ICNP) was created by the International Union of Pure and Applied Physics' C12 in 2003 at to look at key issues in Nuclear Physics.



IUPAP WG9 members, and members of IUPAP C12, present at the IUPAP WG9 Annual General Meeting on 11 July 2014, at the Helmholtzzentrum fuer Schwerionenforschung GmbH, GSI.

Fig.1. WG9 Web page (<http://iupap.org/working-groups/wg9-international-cooperation-in-nuclear-physics-icnp/>).

### References

1. Physics Institutes and National Labs: <http://www.physlink.com/Directories/Institutes.cfm>
2. Research Institutes: <http://www.rarf.riken.go.jp/rarf/np/nplab.html>
3. Online Particle Physics Information: <https://www.slac.stanford.edu/library/pdg/directories.html>
4. A.W. Thomas, W.T.H. van Oers, S.H. Aronson, R.F. Casten, B. Fulton, S. Gales, M.N. Harakeh, W.F. Henning, A. Lepie-Szily, V.A. Matveev, M. Motobayashi, S. Nagamiya, J.-M. Poutissou, R. Tribble, Wenlong Zhan, IUAP Report 41, Research Facilities in Nuclear Physics, A worldwide overview of research facilities in nuclear physics prepared by Working Group WG.9 of the International Union of Pure and Applied Physics (IUPAP). Available for downloads from <http://www.triumf.info/hosted/iupap/icnp/IUPAP%20Report%2041-April-22-2014.pdf>.