

**Progress Report  
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A.I.Blokhin, S.A.Maev, V.N.Manokhin  
Russia's Nuclear Data Centre (CJD, IPPE, Obninsk)

**EXFOR and CINDA activity.**

1. TRANS 4127-4129 were prepared with 112 entries (17 new, 95 corrected). Three CINDA batches (CJD044-CJD046) with 2031 entries were transmitted.
2. During 2002-2003 we were engaged in checking Cinda Entry`s coded as "many". Some of them were compiled again in order to split by elements. We found that it was very useful. In process of this work some essential errors were corrected. We are going to do further the checking and re-compilation, if necessary, in order greatly diminish the number of works with code "many". In some cases the corresponding corrections were made in EXFOR entries.
3. In addition to Dr. S.Maev another coworker of CJD (Marina Mikhailiyukova) was engaged in EXFOR compilation. Many years she worked together with Dr. A.Blokhin in nuclear data processing for the BROND Library. At present time we are going to train Marina as EXFOR compiler.

**NUCLEAR DATA EVALUATIONS**

**Work performed with the participation of CJD**

1. **V-nat, V-51, V-50:** Neutron energy  $E_n < 20$  MeV; work done in collaboration with the Kurchatov institute (Moscow) and the Institute of experimental physics (Sarov), in the frame of the ISTC project#910.
2. **Zr-90, Zr-91, Zr-92, Zr-94, Zr-96:** Neutron energy  $E_n < 20$  MeV; work done in collaboration with the Institute of experimental physics (Sarov), in the frame of the ISTC project#731.
3. **Pb-204, Pb-206, Pb-207, Pb-208, Bi-209:** Neutron energy  $E_n < 20$  MeV; work done in collaboration with the Institute of experimental physics (Sarov), in the frame of the ISTC project#731.
4. Enrichment of secondary gamma-ray production data produced by neutrons with energy  $E_n < 20$  MeV. Secondary gamma-ray production data are newly re-evaluated and incorporated for some nuclides

needed for in the fusion application, namely for: **Al-27, Fe-nat, Cu-63, Cu-65, Zr-nat, Zr-90, Zr-91, Zr-92, Zr-94, Zr-96, Pb-nat, Pb-204, Pb-206, Pb-207, Pb-208, Bi-209.** work done in collaboration with the Institute of experimental physics (Sarov), in the frame of the ISTC project#731.

5. CJD is engaged in re-evaluation of evaluated neutron data for the Nd and Sm separate isotopes for BROND-Library. The correction, processing and testing of new files for Ru and Pd isotopes is under way.
6. Considerable efforts are made to provide by reliable nuclear data the problem of activation and radiation damage of materials used in nuclear reactors and fusion designs. Selection of reaction excitation functions is made on the base of empirical systematics developed in CJD. The final aim is to check all available data and prepare the library similar to the FENDL-2/A, ADL-3 or EAF-99 but more reliable from our point of view.

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