

Workshop: Vienna, 1-5 December 2003
Room F-0534 (Computer Training Room II)

“Relational Databases for Nuclear Data Development, Dissemination and Processing: EXFOR Implementation, Maintenance and Compilation”

Draft (9 May 2003)

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Lecturers: V. McLane (NNDC), NDS Staff

Selection of participants:

6-10 from network centers, who does EXFOR/CINDA management and compilation, selected by NDS on recommendation by centers, according to following criteria.

- PhD (at least, large experience) in experimental physics is highly desirable.
- Should have at least some experience and knowledge of EXFOR and be expected to do compilation work for some period.
- Should submit accession numbers of already compiled entries (if any) and bring some literature for compilation.
- Should (presently or in future) also be managers of EXFOR database i.e. maintaining and updating "master" files.
- If a center plans to award a contract for compilation to somebody from outside the network, this person should attend also.

Schedule: Draft 9 May 2003

Day-1 AM

- 1.1 1h Introduction (what for, measurements technique, methods, usage of db)
- 1.2 1h General structure of EXFOR and CINDA/EXFOR compilation flow
- 1.3 1h Detailed structure of EXFOR (contents of BIB, COMMON, DATA)
- 1.4 0.5h Dictionaries

Day-1 PM

- 1.5 3h Basic compilation exercises (go through homework examples)
- 1.6 0.5h Programs used in compilation: ORDER, CHEX

Day-2 AM

- 2.1 1.5h Reaction specification
- 2.2 0.5h Use of pointers
- 2.3 1.5h Details of other information-identifying keywords

Day-2 PM

- 2.4 1.5h Intermediate Compilation exercises
- 2.5 2h *Databases and interfaces: system design, installation notes*

Day-3 AM

- 3.1 1.5h CINDA Compilation
- 3.2 0.5h Updating and alterations, transmission protocol
- 3.3 1.5h *User's work with database (CD, Web, Access, ZVView, X4TOC4, PLOT4)*

Day-3 PM

- 3.4 1h CINDA Compilation Exercise
- 3.5 1h EXFOR Compilation Exercise: Correction of previous compilations
- 3.6 1.5h *Database maintenance: practical operations I*

Day-4 AM

- 4.1 1h Use of LEXFOR
- 4.2 2.5h Details of compilation using LEXFOR (e.g.: Fission Yields, Thick Target Yields, Polarization,)

Day-4 PM

- 4.3 2h *Database maintenance: practical operations II*
- 4.4 1.5h Advanced compilation exercises

Day-5 AM

- 5.1 1h *Elements of programming*
- 5.2 2h Discussion of technical questions
- 5.3 0.5h Award for best compilation

Day-5 PM

- 5.4 1h *Database maintenance: practical operations III*
- 5.5 1h Workshop summary