ACTIVITY of CAJAD
for the
IAEA Technical Meeting:
Vienna, Austria, 25-28 September 2006

S.Babykina
Nuclear Structure and Reaction Data Center,
Kurchatov's Institute,
Moscow

Our **Exfor activity** had two main direction-

1. **Compilation A -Library**.

After last meeting 2005 we prepared **A061 Trans files**. This Trans files contains astrophysical data, fission data, monitor reaction data. The files include new entries and some corrected old entries according new rules .

2. **Team-work** with NEA DATA-BANK.

During 2005-2006 years 100 Entries were prepared and included in O-library. These Entries contain mainly differential data for elastic and inelastic scattering and production cross section radioactive and stable isotopes, data for material analysis by charged beams. This work is orientated mainly for nuclear wastes transformation , medical applications and material analysis.

3. Checking Codes.

We use to check our TRANSES and ENTRIES two checking codes-

- our checking code
- CHEX

It is very useful, because the codes are not similar and different errors are finding.

4. According to the conclusion last meeting EPJ/A and YF journals review was performed by CAJAD and will distribution right now.

The European Physical Journal A - Hadrons and Nuclei Publisher: Springer Berlin / Heidelberg ISSN:)
Issue: Volume 26, Number 2 , p.271-275-for CAJAD

Mass distribution studies in the $^{19}F + ^{197}Au$ reaction
R. Tripathi[1] and A. Goswami[1]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
3INDTRM	F-19	96,100-MEV	CAJAD	TABLE	A0741

volume 26, Number 2 , p.301-305-FOR CAJAD+NEADB

First direct measurement of the total cross-section of $^{12}C(\alpha,\gamma)^{16}O$ D. Schürmann[1], A. Di Leva[1], L. Gialanella[2], D. Rogalla[3], F. Strieder[1 and other4], A. D'Onofrio[3], G. Imbriani[2], R. Kunz[1], C. Lubritto[3], A. Ordine[2], V. Roca[2], C. Rolfs[1], M. Romano[2], F. Schümann[1], F. Terrasi[3] and H. -P. Trautvetter[1]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
2GERBOC	A	1.9-3.2-MEV	CAJAD +NEADB	TABLE	O1308

Issue: Volume 27, Number 3, Pages: 301 - 312 –FOR NEADB+CAJAD

Gamma-ray spectroscopy of the nucleus ^{139}Ce
D. Bucurescu[1] G. Căta-Danil[1], I. Căta-Danil[1], M. Ivaşcu[1], N. Mărginean[1], R. Mărginean[1], L. C. Mihăilescu[1], C. Rus

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
3RUMRUM	P	5-6-MEV	CAJAD +NEADB	TABLE	O1401
	C-12	50.5-MEV			

Issue: Volume 27, Supplement 1, page 141-144 Date: March 2006-
For ATOMKI
$^{106,108}Cd\ (p,\gamma)^{107,109}In$ cross-sections for the astrophysical p-process
Gy. Gyürky[1,] G. G. Kiss[1, 2], Z. Elekes[1], Zs. Fülöp[1] and E. Somorjai[1]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
3HUNDEB	P	2.4-4.8-MEV	ATOMKI	graph	

Issue: Volume 27, Supplement 1, page 145-148 Date: March 2006-
For NNDC

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
1USANOT	A	8-12MEV	NNDC	graph	

Issue: Volume 27, Supplement 1, page 153-158 Date: March 2006-
For CDFE
Photonuclear reaction data and γ-ray sources for astrophysics
H. Utsunomiya[1,] . Goko[1], H. Toyokawa[2], H. Ohgaki[3], K. Soutome[4], H. Yonehara[4], S. Goriely[5], P. Mohr[6] and Zs. Fülöp[7]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
2JPNKTO	G	10-MEV	CDFE	graph	

Issue: Volume 27, Supplement 1, page 187-192 Date: March 2006-
For ATOMKI

Study of the ^{106}Cd (α,α)^{106}Cd scattering at energies relevant to the p-process

G. G. Kiss[1, 2] , Zs. Fülöp[1], Gy. Gyürky[1], Z. Máté[1], E. Somorjai[1], D. Galaviz[3], A. Kretschmer[3], K. Sonnabend[3] and A. Zilges[3]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status*	*an*
3HUNDEB	A	15.5-19-MEV	ATOMKI	graph		

Issue: Volume 27, Supplement 1, page 233-236 Date: March 2006-
For JCPRG

Study of the ^{26}Si(p,γ)^{27}P reaction through Coulomb dissociation of ^{27}P

Y. Togano[1], T. Gomi[1], T. Motobayashi[2], Y. Ando[1], N. Aoi[2], H. Baba[1], K. Demichi[1], Z. Elekes[2, 3], N. Fukuda[2], Zs. Fülöp[3], U. Futakami[1], H. Hasegawa[1], Y. Higurashi[2], K. Ieki[1], N. Imai[2], M. Ishihara[2], K. Ishikawa[4], N. Iwasa[5], H. Iwasaki[6], S. Kanno[1], Y. Kondo[4], T. Kubo[2], S. Kubono[7], M. Kunibu[1], K. Kurita[1], Y. U. Matsuyama[1], S. Michimasa[7], T. Minemura[2], M. Miura[4], H. Murakami[1], T. Nakamura[4], M. Notani[7], S. Ota[8], A. Saito[1], H. Sakurai[6], M. Serata[1], S. Shimoura[7], T. Sugimoto[4], E. Takeshita[1], S. Takeuchi[2], K. Ue[6], K. Yamada[1], Y. Yanagisawa[2], K. Yoneda[2] and A. Yoshida[2]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status*	*an*
2JPNIPC	P	1439-MEV	JCPRG	graph		

Issue: Volume 28,NUMBER 2 , page 193-203, 2006-
For NEADB+CAJAD

Excitation functions of evaporation residues in the interaction of ^{16}O with ^{103}Rh at incident energies up to 400 MeV

E. Z. Buthelezi[1], F. Cerutti[2], E. Gadioli[2], G. F. Steyn[1], A. Pepe[2], S. H. Connell[3] and A. A. Cowley[1, 4]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status*	*an*
3SAFITH	O--16	40-400MEV	NDB+CAJAD	GRAPH		

Issue: Volume 28,NUMBER 3 , page 295-299,2006-

For NEADB+CAJAD

Scattering of ^{11}Be halo nucleus from ^{209}Bi at the Coulomb barrier

M. Mazzocco[1], C. Signorini[1], M. Romoli[2], A. De Francesco[2], M. Di Pietro[2], E. Vardaci[2], K. Yoshida[3], A. Yoshida[3], R. Bonetti[4], A. De Rosa[2], T. Glodariu[1, 5], A. Guglielmetti[4]

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status*	*an*
2ITYPAD	BE-11	40-MEV	NDB+CAJAD	TABLE		

Physics of Atomic Nuclei –

december 2005 -- Volume 68, Issue 12, pp. 1957-1967 ---for CAJAD

Investigation of the Mechanism of the Reaction 10**B(*d*, *pγ*)** 11**B**
at *Ed*= = 15.3 **MeV by the Methodof Angular *pγ* Correlations**
L. I. Galanina, N. S. Zelenskaya, A. V. Ignatenko,
V. M. Lebedev, N. V. Orlova, O. I. Serikov, and A. V. Spassky*

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
4RUSMOS	D	15.3-mev	CAJAD	graph	in process

september 2005 -- Volume 68, Issue 09, pp. 1417-1420 ---for CDFE
Independent Yields of Kr and Xe Fragments
in the Photofission of 237Np and 243Am Odd Nuclei
Yu. P. Gangrsky*, V. I. Zhemenik, G. V. Mishinsky, and Yu. E. Penionzhkevich

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
4ZZZDUB	G	25	CDFE	table	

january 2006 -- Volume 69, Issue 2, pp. 189-196 ---for CAJAD

Differential Analyzing Power in *pp_* **Scattering on a 28Si Nucleus**
in the Case of the Excitation of High-Spin Particle–Hole States
A. **V. Plavko1) and M. S. Onegin2)***

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
4RUSLIN	**P**		**CAJAD**	**graph**	**in process**

january 2006 -- Volume 69, Issue 3, pp. 452-459 ---for CAJAD
Polarization in Quasielastic (*p, 2p 2p***) Scattering on a** 4**He Nucleus at 1 GeV**
O. V.Miklukho, G.M. Amalsky, V. A. Andreev, S. L. Belostotskyand other

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
4RUSLIN	**P**	**1-Gev**	**CAJAD**	**table+graph**	**in process**

august 2006 -- Volume 69, Issue 8, pp. 1399

-- For JCPRG

Evidence of Complete Fusion in the Sub barrier
16O+ 238U Reaction*
K. Nishio, H. Ikezoe, M.Asai, K.Tsukada, S.Mitsuoka,
K. Tsuruta, K. Satou, C. J.Lin

Lab	*inc.proj.*	*energy*	*center*	*data form*	*status an*
2JPNJPN	**O-16**		**JCPRG**		