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**MEMO CP-N/34**

**DATE:** 5 Oct 2005  
**TO:** See distribution list below  
**FROM:** H. Henriksson  
**SUBJECT:** New conference code and update of dictionary 36

Dear All,

Below follows a suggested addition to the conference dictionary (dictionary 7):

2005SANTA ICANS-XVII, 17th Meeting of the International Collaboration on  
Advanced Neutron Sources, April 25-29, 2005, Santa Fe, New Mexico.

I also propose the addition to the codes in dictionary 36, for bound and free atom  
temperature-dependent cross sections:

BA,,SIG/TMP

FA,,SIG/TMP

Now exists only BA,,SIG and FA,,SIG. See example of possible use below.

Best regards,  
Hans Henriksson

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ENTRY	22878	20051004	22878	0	1	
SUBENT	22878001	20051004	22878	1	1	
BIB	8	31	22878	1	2	
TITLE	.Measured total cross sections of slow neutrons		22878	1	3	
	scattered by gaseous and liquid deuterium molecules		22878	1	4	
AUTHOR	(F. Atchison, K. Bodek, B. van den Brandt, T. Brys,		22878	1	5	
	M. Daum, P. Fierlinger, P. Geltenbort, M. Giersch,		22878	1	6	
	P. Hautle, R. Henneck, S. Heule, M. Hino, M. Kasprzak,		22878	1	7	
	K. Kirch, J. Kohlbrecher, J.A. Konter, G. Kuehne,		22878	1	8	
	M. Kuzniak, A. Pichlmaier, M. Utsuro, A. Wokaun,		22878	1	9	
	J. Zmeskal)		22878	1	10	
INSTITUTE	(2SWTPSI) F.Atchison, B.van den Brandt, T.Brys,		22878	1	11	
	M.Daum, K.Kirch, P.Fierlinger, P.Hautle, R.Henneck,		22878	1	12	
	J.Kohlbrecher, G.Kuehne, J.A.Konter, A.Pilchmaier,		22878	1	13	
	A.Wokaun, and experimental site		22878	1	14	
	(3POLUJK) K.Bodek, M.Kasprzak, M.Kuzniak		22878	1	15	
	(2FR ILL) P.Geltenbort and experimental site		22878	1	16	
	(2AUSAUS) M.Giersch, J.Zmeskal, Institute of Medium		22878	1	17	
	energy physics, Astrian Academy of Science		22878	1	18	
	(2JPNKTO) M.Hiro, M.Utsuro)		22878	1	19	
REFERENCE	(J,PRL,94,212502,20050603) Main reference, graphs are		22878	1	20	
	given		22878	1	21	
	(C,2005SANTA,,200504) ICANS-XVII, Meeting of the		22878	1	22	
	International Collaboration on Advanced Neutron		22878	1	23	
	Sources, April 25-29, 2005, Santa Fe, New Mexico.		22878	1	24	
	Tables of cross section		22878	1	25	
	(J,NIM/A,533,491,2004) Experimental details		22878	1	26	
FACILITY	(REAC,2FR ILL) VCN and UCN at the PF-2 instrument		22878	1	27	
	of the Institute Laue-Langevin		22878	1	28	
	(SELVE,2SWTPSI) Velocity selector, SANS-1 instrument		22878	1	29	
	of the SINQ facility at Paul Scherrer Institute		22878	1	30	
METHOD	(TOF) Time of flight		22878	1	31	
ERR-ANALYS	(DATA-ERR) Not specified		22878	1	32	
HISTORY	(20051004C) HH		22878	1	33	
ENDBIB	31	0	22878	1	34	
NOCOMMON	0	0	22878	1	35	
ENDSUBENT	34	0	22878	199999		
SUBENT	22878002	20051004	22878	2	1	
BIB	3	9	22878	2	2	
REACTION	(1-H-DXX(N,TOT),FA,SIG/TMP) Gaseous molecular		22878	2	3	
	deuterium at 25 grad K		22878	2	4	
SAMPLE	.2-H-2 has purity 99.95%, orto-deuterium concentration		22878	2	5	
	is 98.6% +- 0.4%. Density is 1.63 +- 0.04 dm3/mol.		22878	2	6	
	Sample cell was connected to the warm gas tank at		22878	2	7	
	pressure (1.09+-0.02)E+5 pascal. Thickness of the		22878	2	8	
	cell varied from 10 to 11.1 mm		22878	2	9	
STATUS	.From table 1 of reference 2. Obtained from K.Kirch,		22878	2	10	
	2005-09-01 via E-mail		22878	2	11	
ENDBIB	9	0	22878	2	12	
COMMON	2	3	22878	2	13	
TEMP	TEMP-ERR		22878	2	14	
K	K		22878	2	15	
	25.0	0.3	22878	2	16	
ENDCOMMON	3	0	22878	2	17	
DATA	3	43	22878	2	18	
EN	DATA DATA-ERR		22878	2	19	
EV	B B		22878	2	20	
	5.61E-05	47.2	9.4	22878	2	21
	4.28E-05	68.7	5.3	22878	2	22
...						