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Memo CP-C/272

DATE: 14 September 2000
TO: Distribution
FROM: V. McLane
SUBJECT: Polarization Dictionary updates

Attached is a complete list of polarization quantities. If the polarization proposal is accepted, only these quantities should remain in the dictionaries. All others should be marked obsolete.

I have updated all BNL entries which required updates. These will be sent in TRANS C044. Aside from these, I have found only one other entry in the library which needs updating. This entry is from area 2. I will volunteer to update it and send it NEA Data Bank for inclusion in a transmission file.

Distribution:

M. Chiba, Sapporo
F. E. Chukreev, CAJaD
S. Dunaeva, Sarov
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Zhuang Youxiang, CNDC
NNDC File

,POL	NO	Spin-polarization probability
,POL,D	NO	Spin-polarization probability of deuterons
PAR,POL,G	NO	Polarization for gamma ray specified.
,POL,FF,ASY	NO	Asymmetry of fission fragments
,POL/DA	NO	Spin-polarization probability d/dA
,POL/DA,,AL1	NO	Assc.leg.coef.of 1st kind to fit spin-pol. prob.
,POL/DA,,COS	NO	Cosine coef. for fit to spin-pol. probability
,POL/DA,,LEG	NO	Legendre coef. for fit to spin-pol. probability
,POL/DA,,SN2	NO	Spin-polariz. prob., coef. sum in power sin**2
,POL/DA,D	NO	Diff. spin-polariz. prob. d/dA of deuterons
EM/PAR,POL/DA	NO	Partial emission diff.spin-polar.prob.
PAR,POL/DA	NO	Diff. spin-polarization prob.for partial react.
,POL/DA,,ASY	NO	Asymmetry of polarized particles
,POL/DA,,ASY/PP	NO	Asymmetry as a fn. of inc.parallel/perpend.
LON,POL/DA,,ASY	NO	Polarization asymmetry for longitud.polar.
PAR,POL/DA,,ASY	NO	Partial asymmetry of polarized particles
PAR,POL/DA,P/A,ASY	NO	Asymmetry for given p-alpha pair
,POL/DA,,ANA	NO	Analyzing power
,POL/DA,*,ANA	NO	Analyzing power for particle specified
,POL/DA,D,ANA	NO	Analyzing power for d
,POL/DA,HE3,ANA	NO	Analyzing power for helium-3, A(y)
,POL/DA,N,ANA	NO	Analyzing power for neutrons, A(y)
,POL/DA,P,ANA	NO	Analyzing power for protons
PAR,POL/DA,,ANA	NO	Partial analyzing power
LL,POL/DA,,ANA	NO	Spin correlation parameter, A(LL)
NN,POL/DA,,ANA	NO	Spin correlation parameter, A(NN)
SL,POL/DA,,ANA	NO	Spin correlation parameter, A(SL)
SS,POL/DA,,ANA	NO	Spin correlation parameter, A(SS)
LL/PAR,POL/DA,,ANA	NO	Partl.spin correlation parameter A(LL)
NN/PAR,POL/DA,,ANA	NO	Partl.spin correlation parameter A(NN)
SL/PAR,POL/DA,,ANA	NO	Partl.spin correlation parameter A(SL)
LL,POL/DA,,C	NO	Spin-correlation parameter, C(LL)
LS,POL/DA,,C	NO	Spin-correlation parameter, C(LS)
NN,POL/DA,,C	NO	Spin-correlation parameter, C(NN)
SL,POL/DA,,C	NO	Spin-correlation parameter, C(SL)
SS,POL/DA,,C	NO	Spin-correlation parameter, C(SS)
LL,POL/DA,,D	NO	Spin-rotation parameter, D(LL)
LS,POL/DA,,D	NO	Spin-rotation parameter, D(LS)
NN,POL/DA,,D	NO	Spin-depolarization parameter, D(NN)
SL,POL/DA,,D	NO	Spin-rotation parameter, D(SL)
SS,POL/DA,,D	NO	Spin-rotation parameter, D(SS)
LL/PAR,POL/DA,,D	NO	Spin-rotation parameter,D(LL),partl.reaction
LS/PAR,POL/DA,,D	NO	Spin-rotation parameter,D(LS),partl.reaction
NN/PAR,POL/DA,,D	NO	Spin-depolarization param.,D(NN),partl. reaction
SL/PAR,POL/DA,,D	NO	Spin-rotation parameter,D(SL),partl.reaction
SS/PAR,POL/DA,,D	NO	Spin-rotation parameter,D(SS), for neutron
LL,POL/DA,N,D	NO	Spin-rotation parameter,D(LL), for neutron
LL,POL/DA,P,D	NO	Spin-rotation parameter,D(LL), for proton
LS,POL/DA,N,D	NO	Spin-rotation parameter,D(LS), for neutron
LS,POL/DA,P,D	NO	Spin-rotation parameter,D(LS), for proton
NN,POL/DA,N,D	NO	Spin-depolarization parameter, for neutron
NN,POL/DA,P,D	NO	Spin-depolarization parameter, for proton
SL,POL/DA,N,D	NO	Spin-rotation parameter,D(SL), for neutron
SL,POL/DA,P,D	NO	Spin-rotation parameter,D(SL), for proton
SS,POL/DA,N,D	NO	Spin-rotation parameter,D(SS), for neutron
SS,POL/DA,P,D	NO	Spin-rotation parameter,D(SS), for proton

LL,POL/DA,,K	NO	Spin-transfer parameter, K(LL)
LS,POL/DA,,K	NO	Spin-transfer parameter, K(LS)
NN,POL/DA,,K	NO	Spin-transfer parameter, K(NN)
SL,POL/DA,,K	NO	Spin-transfer parameter, K(SL)
SS,POL/DA,,K	NO	Spin-transfer parameter, K(SS)
NN,POL/DA,RCL,K	NO	Spin-transfer param., K(NN), for recoil nucl.
LL/PAR,POL/DA,,K	NO	Spin-transfer parameter, K(LL), partl. reaction
LS/PAR,POL/DA,,K	NO	Spin-transfer parameter, K(LS), partl. reaction
NN/PAR,POL/DA,,K	NO	Spin-transfer param., K(NN), for partl. reaction
SL/PAR,POL/DA,,K	NO	Spin-transfer parameter, K(SL), partl. reaction
SS/PAR,POL/DA,,K	NO	Spin-transfer param, K(SS), for partl. reaction
,POL/DA,,SRF	NO	Spin rotation function, Q
NN/PAR,POL/DA,,SF	NO	Spin-flip prob. S(nn) for partial reaction
PAR,POL/DA,,SF	NO	Spin-flip probability, S(nn), partial reaction
20,POL/DA,,TAP	NO	Tensor analyzing power, T(20), spherical coord.
21,POL/DA,,TAP	NO	Tensor analyzing power, T(21), spherical coord.
22,POL/DA,,TAP	NO	Tensor analyzing power, T(22), spherical coord.
20/PAR,POL/DA,,TAP	NO	Tensor anal.power,T(20),spherical coord., partl.
21/PAR,POL/DA,,TAP	NO	Tensor anal.power,T(21),spherical coord., partl.
22/PAR,POL/DA,,TAP	NO	Tensor anal.power,T(22),spherical coord., partl.
PAR/20,POL/DA,,TAP	NO	Partial tensor anal.power T(20), spher. coord.
PAR/21,POL/DA,,TAP	NO	Partial tensor anal.power T(21), spher. coord.
PAR/22,POL/DA,,TAP	NO	Partial tensor anal.power T(22), spher. coord.
,POL/DA,,VAP	NO	Vector analyzing power, iT(11),spherical coord.
PAR,POL/DA,,VAP	NO	Partial vector analyzing power,spherical coord.
,POL/DA/DE,,ANA	NO	Analyzing power/dE
,POL/DA/DE,N,ANA	NO	Analyzing power dA/dE for neutrons
,POL/DA/DE,P,ANA	NO	Analyzing power dA/dE for protons
,POL/DA/DE,P/P,ANA	NO	Analyzing power dA/dE for proton pair
NN,POL/DA/DE,,SF	NO	Double diff. spin-flip prob.d/dA/dE, S(nn)
,POL/DA/DA/DE,,ANA	NO	Analyzing power DA1/DA2/dE1 for 2 particles
,POL/DA/DA/DE,P,ANA	NO	Analyzing power DA1/DA2/dE1 for 2 protons
PAR,POL/DA/DA/DE,,ANA	NO	Partial anal.power DA1/DA2/dE1 for 2 particles