Release notes for ENDF/B Development protons sublibrary

January 18, 2018

FAILURE SUMMARY

No FAILURES found!

ERROR SUMMARY

fizcon A TAB1 (yield?) and an outgoing distribution don't span the same energy region.: `p-002_He_003.endf`,

fizcon All probability distributions should be normalized to 1, this one isn't.: `p-004_Be_009.endf`, `p-013_Al_027.endf`,
`p-014_Si_028.endf`, `p-014_Si_030.endf`, `p-015_P_031.endf`, `p-024_Cr_050.endf`, `p-024_Cr_052.endf`, `p-024_Cr_053.endf`,
`p-024_Cr_054.endf`, `p-028_Ni_058.endf`, `p-028_Ni_060.endf`, `p-028_Ni_061.endf`, `p-028_Ni_062.endf`, `p-028_Ni_064.endf`,
`p-029_Cu_065.endf`, `p-041_Nb_093.endf`, `p-080_Hg_196.endf`, `p-080_Hg_198.endf`, `p-080_Hg_199.endf`, `p-080_Hg_200.endf`,
`p-080_Hg_201.endf`, `p-080_Hg_202.endf`, `p-080_Hg_204.endf`, `p-082_Pb_206.endf`, `p-082_Pb_207.endf`, `p-082_Pb_208.endf`,

fizcon Q value is wrong.: `p-004_Be_009.endf`,

fizcon Reaction can't use 2-body kinematics: `p-001_H_002.endf`, `p-006_C_013.endf`,

fizcon The cross section and an outgoing distribution don't span the same energy region.: `p-001_H_003.endf`,
`p-014_Si_028.endf`, `p-020_Ca_040.endf`, `p-028_Ni_058.endf`, `p-029_Cu_063.endf`, `p-082_Pb_208.endf`, `p-083_Bi_209.endf`,

fizcon The mass field (AWI) is incorrectly set.: `p-001_H_001.endf`, `p-001_H_002.endf`, `p-002_He_003.endf`, `p-004_Be_009.endf`,
`p-006_C_012.endf`, `p-007_N_014.endf`, `p-008_O_016.endf`, `p-013_Al_027.endf`, `p-014_Si_028.endf`, `p-014_Si_029.endf`,
`p-014_Si_030.endf`, `p-015_P_031.endf`, `p-020_Ca_040.endf`, `p-024_Cr_050.endf`, `p-024_Cr_052.endf`, `p-024_Cr_053.endf`,
`p-024_Cr_054.endf`, `p-026_Fe_054.endf`, `p-026_Fe_056.endf`, `p-026_Fe_057.endf`, `p-028_Ni_058.endf`, `p-028_Ni_060.endf`,
`p-028_Ni_061.endf`, `p-028_Ni_062.endf`, `p-028_Ni_064.endf`, `p-029_Cu_063.endf`, `p-029_Cu_065.endf`, `p-041_Nb_093.endf`,
`p-074_W_182.endf`, `p-074_W_183.endf`, `p-074_W_184.endf`, `p-074_W_186.endf`, `p-080_Hg_196.endf`, `p-080_Hg_198.endf`,
`p-080_Hg_199.endf`, `p-080_Hg_200.endf`, `p-080_Hg_201.endf`, `p-080_Hg_202.endf`, `p-080_Hg_204.endf`, `p-082_Pb_206.endf`,
`p-082_Pb_207.endf`, `p-082_Pb_208.endf`, `p-083_Bi_209.endf`,

fudge-4.0 Calculated and tabulated Q values disagree.: `p-001_H_003.endf`, `p-002_He_003.endf`, `p-003_Li_006.endf`,
`p-004_Be_009.endf`, `p-005_B_010.endf`,

fudge-4.0 Energy range of data set does not match cross section range: `p-001_H_003.endf`, `p-004_Be_009.endf`,
`p-014_Si_028.endf`, `p-020_Ca_040.endf`, `p-028_Ni_058.endf`, `p-029_Cu_063.endf`, `p-082_Pb_208.endf`, `p-083_Bi_209.endf`,

fudge-4.0 Found a negative probability: `p-004_Be_009.endf`,

fudge-4.0 Negative multiplicity found: `p-020_Ca_040.endf`, `p-024_Cr_052.endf`, `p-028_Ni_058.endf`,

fudge-4.0 Tabulated threshold below calculated threshold!: `p-001_H_002.endf`, `p-001_H_003.endf`, `p-028_Ni_058.endf`,
`p-028_Ni_060.endf`, `p-028_Ni_062.endf`, `p-028_Ni_064.endf`,

fudge-4.0 There is a gap in the cross section: `p-001_H_003.endf`, `p-003_Li_006.endf`, `p-005_B_010.endf`,

linear Negative cross section found: `p-001_H_002.endf`, `p-004_Be_009.endf`, `p-006_C_012.endf`, `p-007_N_014.endf`, `p-008_O_016.endf`, `p-013_Al_027.endf`, `p-014_Si_028.endf`, `p-014_Si_029.endf`, `p-014_Si_030.endf`, `p-015_P_031.endf`, `p-020_Ca_040.endf`, `p-024_Cr_050.endf`, `p-024_Cr_052.endf`, `p-024_Cr_053.endf`, `p-024_Cr_054.endf`, `p-026_Fe_054.endf`, `p-026_Fe_056.endf`, `p-026_Fe_057.endf`, `p-028_Ni_058.endf`, `p-028_Ni_060.endf`, `p-028_Ni_061.endf`, `p-028_Ni_062.endf`, `p-028_Ni_064.endf`, `p-029_Cu_063.endf`, `p-029_Cu_065.endf`, `p-041_Nb_093.endf`, `p-074_W_182.endf`, `p-074_W_183.endf`, `p-074_W_184.endf`, `p-074_W_186.endf`, `p-080_Hg_196.endf`, `p-080_Hg_198.endf`, `p-080_Hg_199.endf`, `p-080_Hg_200.endf`, `p-080_Hg_201.endf`, `p-080_Hg_202.endf`, `p-080_Hg_204.endf`, `p-082_Pb_206.endf`, `p-082_Pb_207.endf`, `p-082_Pb_208.endf`, `p-083_Bi_209.endf`,

njoy2016 An angular distribution is negative: `p-004_Be_009.endf`,

njoy2016 An unidentified mismatch in a photon production sum: `p-006_C_013.endf`, `p-013_Al_027.endf`, `p-015_P_031.endf`, `p-024_Cr_050.endf`, `p-024_Cr_053.endf`, `p-024_Cr_054.endf`, `p-026_Fe_056.endf`, `p-026_Fe_057.endf`, `p-028_Ni_061.endf`, `p-029_Cu_063.endf`, `p-029_Cu_065.endf`, `p-041_Nb_093.endf`, `p-074_W_183.endf`, `p-074_W_184.endf`, `p-082_Pb_207.endf`,

psyche A probability distribution is negative. This is bad.: `p-004_Be_009.endf`,

xsectplotter Negative multiplicity found: `p-020_Ca_040.endf`, `p-024_Cr_052.endf`, `p-028_Ni_058.endf`,

WARNING SUMMARY

fudge-4.0 First cross section point not zero right at threshold: `p-013_Al_027.endf`, `p-014_Si_029.endf`, `p-014_Si_030.endf`,

fudge-4.0 Unnormalized outgoing probability distribution: `p-041_Nb_093.endf`, `p-082_Pb_206.endf`, `p-082_Pb_207.endf`,

njoy2016 There is bad Kalbach parameter (r(E) or otherwise): `p-004_Be_009.endf`, `p-006_C_012.endf`, `p-007_N_014.endf`, `p-008_O_016.endf`, `p-013_Al_027.endf`, `p-014_Si_028.endf`, `p-014_Si_029.endf`, `p-014_Si_030.endf`, `p-015_P_031.endf`, `p-020_Ca_040.endf`, `p-024_Cr_050.endf`, `p-024_Cr_052.endf`, `p-024_Cr_053.endf`, `p-024_Cr_054.endf`, `p-026_Fe_054.endf`, `p-026_Fe_056.endf`, `p-026_Fe_057.endf`, `p-028_Ni_058.endf`, `p-028_Ni_060.endf`, `p-028_Ni_061.endf`, `p-028_Ni_062.endf`, `p-028_Ni_064.endf`, `p-029_Cu_063.endf`, `p-029_Cu_065.endf`, `p-041_Nb_093.endf`, `p-074_W_182.endf`, `p-074_W_183.endf`, `p-074_W_184.endf`, `p-074_W_186.endf`, `p-080_Hg_196.endf`, `p-080_Hg_198.endf`, `p-080_Hg_199.endf`, `p-080_Hg_200.endf`, `p-080_Hg_201.endf`, `p-080_Hg_202.endf`, `p-080_Hg_204.endf`, `p-082_Pb_206.endf`, `p-082_Pb_207.endf`, `p-082_Pb_208.endf`, `p-083_Bi_209.endf`,

njoy2016 The evaluation was missing a file 12. This may be OK. Or not.: `p-001_H_002.endf`, `p-004_Be_009.endf`, `p-006_C_012.endf`, `p-006_C_013.endf`, `p-007_N_014.endf`, `p-008_O_016.endf`, `p-013_Al_027.endf`, `p-014_Si_028.endf`, `p-014_Si_029.endf`, `p-014_Si_030.endf`, `p-015_P_031.endf`, `p-020_Ca_040.endf`, `p-024_Cr_050.endf`, `p-024_Cr_052.endf`, `p-024_Cr_053.endf`, `p-024_Cr_054.endf`, `p-026_Fe_054.endf`, `p-026_Fe_056.endf`, `p-026_Fe_057.endf`, `p-028_Ni_058.endf`, `p-028_Ni_060.endf`, `p-028_Ni_061.endf`, `p-028_Ni_062.endf`, `p-028_Ni_064.endf`, `p-029_Cu_063.endf`, `p-029_Cu_065.endf`, `p-041_Nb_093.endf`, `p-074_W_182.endf`, `p-074_W_183.endf`, `p-074_W_184.endf`, `p-074_W_186.endf`, `p-080_Hg_196.endf`, `p-080_Hg_198.endf`, `p-080_Hg_199.endf`, `p-080_Hg_200.endf`, `p-080_Hg_201.endf`, `p-080_Hg_202.endf`, `p-080_Hg_204.endf`, `p-082_Pb_206.endf`, `p-082_Pb_207.endf`, `p-082_Pb_208.endf`, `p-083_Bi_209.endf`,