Release notes for ENDF/B Development dec-041_Nb_109 evaluation

October 14, 2016

- `fizcon` Errors:

  1. Parity set to illegal value
     MAT=1107, MF= 8, MT=457 (1): Bad parity

     ```
     ERROR(S) FOUND IN MAT=1107, MF= 8, MT=457
        PARITY= 0.00000E+00 NOT +1.0 OR -1.0
     ```

  2. All probability distributions should be normalized to 1, this one isn't.
     MAT=1107, MF= 8, MT=457 (2): Bad norm (b)

     ```
     ERROR(S) FOUND IN MAT=1107, MF= 8, MT=457
        NORMALIZATION CHECK INTEGRAL= 1.00138E+00 BEFORE
     ```

  3. Energies released in decay not adding up!
     MAT=1107, MF= 8, MT=457 (3): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=1107, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 8.65789E+06  SUM= 5.24547E+06
     ```

  4. Energies released in decay not adding up!
     MAT=1107, MF= 8, MT=457 (4): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=1107, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 2.21211E+06  SUM= 2.22889E+06
     ```

  5. Energies released in decay not adding up!
     MAT=1107, MF= 8, MT=457 (5): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=1107, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 2.85908E+06  SUM= 2.86408E+06
     ```

  6. Energies released in decay not adding up!
     MAT=1107, MF= 8, MT=457 (6): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=1107, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.49535E+05  SUM= 1.52498E+05
     ```