# Release notes for ENDF/B Development dec-040_Zr_105 evaluation

October 14, 2016

- `fizcon` Errors:

  1. All probability distributions should be normalized to 1, this one isn't.
     *MAT=1056, MF= 8, MT=457 (1): Bad norm (b)*

     ```
     ERROR(S) FOUND IN MAT=1056, MF= 8, MT=457
        NORMALIZATION CHECK INTEGRAL= 1.00570E+00 BEFORE
     ```

  2. Energies released in decay not adding up!
     *MAT=1056, MF= 8, MT=457 (2): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1056, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 8.43163E+06  SUM= 4.45729E+06
     ```

  3. Energies released in decay not adding up!
     *MAT=1056, MF= 8, MT=457 (3): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1056, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.02786E+06  SUM= 1.04656E+06
     ```

  4. Energies released in decay not adding up!
     *MAT=1056, MF= 8, MT=457 (4): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1056, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.40552E+06  SUM= 3.41053E+06
     ```

  5. Energies released in decay not adding up!
     *MAT=1056, MF= 8, MT=457 (5): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1056, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.91403E+02  SUM= 1.96792E+02
     ```