



Questionnaire results

Materials

Materials

- In order to define a water region in a FLUKA geometry it is mandatory to use:
 - A. the MATERIAL, COMPOUND and ASSIGNMAT cards: 6 (21.43%)
 - B. the MATERIAL and ASSIGNMAT cards: 5 (17.86%)
 - C. the COMPOUND and ASSIGNMAT cards: 0 (0.00%)
 - **D. the ASSIGNMAT card: 17 (60.71%)**

- When defining a compound material, which of the following statements is false?
 - A. The sum of mass or volume fractions does not need to be equal to 1: 3 (10.71%)
 - **B. The MATERIAL card is not necessary: 18 (64.29%)**
 - C. Compounds with more than 3 components can be defined: 1 (3.57%)
 - D. All compounds included in another compound do not need to be defined with the same type of abundance fraction: 6 (21.43%)

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- In order to define fluorine by means of the MATERIAL card, which of the following statements is false?
 - A. It is recommended to use the FLUORINE name: 4 (14.29%)
 - B. It is mandatory to specify the density: 3 (10.71%)
 - C. It is mandatory to specify the mass: 19 (67.86%)
 - D. It is mandatory to specify the atomic number: 2 (7.14%)

- As a proton is transported through a thin gaseous carbon dioxide layer, which of the following statements is false?
 - A. It may undergo a nuclear reaction with an ^{18}O nucleus: 5 (17.86%)
 - B. It is unlikely that it will undergo a nuclear reaction: 6 (21.43%)
 - C. If it undergoes a nuclear reaction, the latter takes place on an average nucleus representing the two element compound: 16 (57.14%)
 - D. It may produce an alpha particle: 1 (3.57%)

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- In a vacuum region, which of the following statements is false?
 - A. A magnetic field can be defined: 4 (14.29%)
 - B. A particle necessarily preserves its identity: 4 (14.29%)
 - C. No energy deposition can take place: 9 (32.14%)
 - D. A macroscopic quantity may differ from zero: 11 (40.74%)

