



Questionnaire results

Advanced sources

Advanced sources

- The SPECSOUR card for colliding beams:
 - A. allows to simulate electron-positron collisions: 5 (22.73%)
 - B. refers to the collision centre-of-mass: 3 (13.64%)
 - C. limits the collision spatial distribution within a single geometry region (typically vacuum): 3 (13.64%)
 - D. allows to simulate proton-lead inelastic collisions: 11 (50.00%)
- In the case of the synchrotron radiation source, which of the following statements is false?
 - A. The primary particles are neutral: 7 (31.82%)
 - B. The original beam has a fixed energy: 3 (13.64%)
 - C. The photon angular distribution is isotropic: 6 (27.27%)
 - D. The radiation generation may take place in a region not defined as magnetic: 6 (27.27%)

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- FLUKA can simulate the following cosmic rays sources:
 - A. Galactic Cosmic Rays: 19 (46.34%)
 - B. Secondary Cosmic Rays: 2 (4.88%)
 - C. Solar Particle Events: 18 (43.90%)
 - D. Gamma-Ray Bursts: 2 (4.88%)
- In case of multiple beam spots, each spot can be defined with:
 - A. Different particle type: 0 (0.00%)
 - B. Different beam momentum and divergence: 0 (0.00%)
 - C. Different beam position and direction: 0 (0.00%)
 - D. All of the above: 22 (100.00%)

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- Select which statement is true in case a USRBIN detector is used to define the spatial distribution of the primaries:
 - A. Sampled particle type is defined with the SPECSOUR card: 3 (13.64%)
 - B. The scored quantity must be a particle fluence: 5 (22.73%)
 - C. Particle direction is sampled based on BEAM-POS and BEAMAXES cards: 9 (40.91%)
 - D. Cylindrical scoring can be used: 5 (22.73%)

