

## **Questionnaire results**

- The SPECSOUR card for colliding beams:
  - A. allows to simulate electron-positron collisions: 4 (20.00%)
  - B. refers to the collision centre-of-mass: 4 (20.00%)
  - C. limits the collision spatial distribution within a single geometry region (typically vacuum): 1
    (5.00%)
  - D. allows to simulate proton-lead inelastic collisions: 11 (55.00%)
- In the case of the synchrotron radiation source, which of the following statements is false?
  - A. The primary particles are neutral: 10 (50.00%)
  - B. The original beam has a fixed energy: 1 (5.00%)
  - C. The photon angular distribution is isotropic: 5 (25.00%)
  - D. The radiation generation may take place in a region not defined as magnetic: 4 (20.00%)



- FLUKA can simulates the following cosmic rays sources:
  - A. Galactic Cosmic Rays: 19 (47.50%)
  - B. Secondary Cosmic Rays: 4 (10.00%)
  - C. Solar Particle Events: 16 (40.00%)
  - D. Gamma-Ray Bursts: 1 (2.50%)
- 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: 2 (10.00%)
  - C. Different beam position and direction: 2 (10.00%)
  - D. All of the above: 16 (80.00%)



- 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: 10 (50.00%)
  - B. The scored quantity must be a particle fluence: 3 (15.00%)
  - C. Particle direction is sampled based on BEAM-POS and BEAMAXES cards: 5 (25.00%)
  - D. Cylindrical scoring can be used: 2 (10.00%)



