Questionnaire results

Biasing

25 participant replies

Survey: Biasing

- Which of the following statements is true?
  - A. Biasing can reproduce fluctuations and correlations. 5 (20.00%)
  - B. Using biasing does not require active reasoning and experience. 0 (0.00 %)
  - C. Biasing can accelerate the convergence of the quantity of interest in all regions of the geometry. 8 (32.00%)
  - D. None of the above. 12 (48.00%)

- In region importance biasing in FLUKA, at the boundary between two regions with different importance...
  - A. ...the weight of a particle is reduced in case of splitting. 0 (0.00 %)
  - B. ...the weight of a surviving particle is increased in case of Russian roulette. 0 (0.00%)
  - C. ...the allowed values of the ratio R of the importances of the two adjacent regions are 1/5<= R <= 5. 0. 6 (24.00%)
  - D. ...all of the above are true. 19 (76.00%)

Survey: Biasing

- Leading particles biasing is applied to:
  - A. electrons and positrons. 25
  - B. hadrons 3
  - C. muons 2
  - D. photons 20

- The EMF-BIAS card...
  - A. ...allows to set the threshold above which the LPB is applied. 7 (28.00%)
  - B. ...allows to set the LPB on a region-basis. 15 (60.00%)
  - C. ...cannot be tuned for each type of electron and photon interactions. 0 (0.00%)
  - D. . ..aims at reducing the variance of the scored quantities. 3 (12.00%)

Survey: Biasing

- Which of the following is true when using BIASING cards?
  - A. Only one BIASING card is allowed in the input file. 0
  - B. Particle types can be selected in the BIASING card. 21
  - C. Region Importance Biasing is always applied when particles cross a boundary between zones. 2
  - D. Region Importance Biasing is applied when particles cross a boundary regions. 22


FLUKA