Exercise 3: Flair

FLUKA Beginner's Course

Exercise 3: Flair

Aim of the exercise:

1- Familiarize with Flair interface

2- Edit input file using Flair

3- Run using Flair

Exercise 3: Flair

Start flair and…

1) Configure the preferences (if you did not do that before)

2) Inside Flair create a new directory "ex3" and select it

3) Create a new project, based on the "basic" input template

Exercise 3: Flair

- Modify the input file:
  - Defaults: NEW-DEFAults
  - Beam:
    - Origin (x,y,z) = **(0.0, 0.0, -0.1)**
    - Directed **toward positive z**
    - Pencil **proton** beam
    - Kinetic energy **E=3.5 GeV**
    - Momentum Gaussian spread Δ**p= 0.8 GeV/c**
    - Divergence Gaussian $\Delta\phi$**=1.7 mrad**
  - Material: Assign BLOOD to the target (use the Material Database)
  - Primaries: 5000
- Visualize the geometry using the Geometry Editor
- Run 3 cycles
- While running, monitor the progress of the run and the output files