



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-DEFA**ults
 - 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 **$\Delta p= 0.8$ 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