



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

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Run `flair -h` (contains useful commands you can pass to flair)

Start flair and...

- 1) Configure the preferences (if you did not do that before)
- 2) Create a New project, based on the "basic" input template (default)
- 3) Save the project in a new directory "ex3" with the name "ex3"

Hint: You can either create the directory with terminal or from the file browser that pops up while saving.

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- Modify the input file:
 - Defaults: **PRECISION**
 - 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: 20000
- Visualize the geometry using the Geometry Editor
- Run 3 cycles
- While running, monitor the progress of the run and the output files
- View the output files using flair