

Discussion - Input

Next simulations (2-3 years):

- Do we need a benchmark study BIG2/Autodyn at 7 TeV?
- What are the most relevant future studies?
 - Full impact with LIU/HL-LHC beam intensities?
 - 'No dilution case' failure with MKD overshoot?
 - ...

Which tools to be used:

- FLUKA
- Autodyn / LS-Dyna / BIG2?
- Efficient coupling of energy deposition and hydrodynamic codes?
 - already existing solutions (semi-automatic / automatic)
 - MpCCI?
- ...

Other items:

- How to optimize the time required for FLUKA calculations?
- What accuracy do we need?
- Material properties, choice of constitutive models and their influence on the results
→ Sensitivity on un-certainties?
- Are there any plasma effects relevant for hydrodynamic tunnelling?
- How to use FLUKA for beam-matter interaction in the regime of plasma?
- ...