



BULK DYNAMICS – HANDS-ON

SLACK: [# JULY27-28-BULK-DYNAMICS](#)

INSTRUCTIONS: [ON GITHUB](#)

HANDS-ON EXERCISES

Exercise	Collision system	Viscosities	Topic	user XML file and Jupyter
#1	0-5% Au-Au@200 GeV	$\eta/s = 0.15, \zeta/s(T)$	particle yields and spectra	config/jetscape_user_exercise_1.xml jupyter/exercise_1_particle_spectra.ipynb
#2	20-30% Pb-Pb@2.76 TeV	$\eta/s = 0, \zeta/s = 0$	evolution of flow and temperature	config/jetscape_user_exercise_2.xml jupyter/exercise_2_hydro_movie.ipynb
#3	20-30% Pb-Pb@2.76 TeV	$\eta/s = 0.15, \zeta/s = 0$	effects of shear viscosity	config/jetscape_user_exercise_3.xml jupyter/exercise_3_shear_viscosity.ipynb
#4	20-30% Pb-Pb@2.76 TeV	$\eta/s = 0, \zeta/s(T)$	effects of bulk viscosity	config/jetscape_user_exercise_4.xml jupyter/exercise_4_particle_pT.ipynb
#5	Au-Au & Pb-Pb	$\eta/s(T), \zeta/s(T)$	multi-dimensional parameter space	JETSCAPE SIMS widget

Day 1

Day 2

QUICK POLL

- ▶ Have you built the framework with freestream, MUSIC and iSS on?

```
cd ~/JETSCAPE
mkdir -p build
cd build
cmake .. -DUSE_MUSIC=ON -DUSE_ISS=ON -DUSE_FREESTREAM=ON
make -j4
```

YES

- ▶ Yes,  on Zoom, take a ~15-min break

NO

- ▶ No,  on Zoom, let the framework compile and take a break