Flow and stopping measurements from the $S\pi RIT$ experiment Direct flow and elliptical flow



Multi-parameter fit by comparing data with ImQMD's predictions

- 1. Train a Gaussian process to emulate ImQMD.
- 2. Constrain EoS parameters with Bayesian analysis by comparing emulator's predictions with measured VarXZ and averaged flow simultaneously.





EoS parameters are correlated to effective mass difference. This can be used to tighten constraint on other EoS parameters.