Framework Getting Started To-Do

- Geometry, geometry, geometry ...
- Interface with Geant4
- Data model, class definitions (digits, hits, clusters, ...)
- Simple algorithms, e.g.
 - GEM & calorimeter digitization
 - GEM cluster finder
 - Basic calorimeter cluster finder
 - Similar for Cherenkovs
- Conditions database (try CCDB)
- Packaging, local documentation
- Research tracking algorithms (NB: our tracking problem has already been solved somewhere!)

Guidelines

- Develop in *art* to evaluate the framework
- Mind portability we might want to use the code elsewhere after all
 - Generalize interfaces
 - Embed algorithms in adapter classes (like LArSoft does)
 - Avoid direct use of art-internals where possible
- Mind concurrency. Write thread-safe code:
 - No globals, statics (except constants)
 - Use thread-local storage where needed (supported in C++11)
 - Seek advice if it looks like something might need to be locked
 - Assume the framework will manage concurrency. Don't parallelize anything yourself (*e.g.* no OpenMP)