

RNTuple Error Handling in Athena

- RNTuple code is mostly located in the ATLAS POOL (APR) module absorbed into Athena years ago
 - APR does not follow the typical Gaudi StatusCode returning convention
 - Makes generous use of C++ exceptions for error reporting
 - Higher layers of APR (and Athena above them) wrap both TTree and RNTuple specific implementations - uniform way of treating errors
- RNTuple's error reporting is also using exceptions
 - Fits well into existing scheme
- The only place we explicitly check return values are when creating RNTuple Reader/Writer
- Errors seen in the years of implementing RNTuple in Athena - surprisingly little I/O errors, more type-handling EDM related errors thrown by GetField()