

ROOT AND NEW PROGRAMMING PARADIGMS

PHILIPPE CANAL, FERMILAB
AXEL NAUMANN, CERN



ROOT AND NEW PROGRAMMING PARADIGMS

- C++ has changed significant over the last 20 years and its new features can help write much simpler code
- ROOT is taking advantage of this via new interfaces resolving outstanding challenges but in backward incompatibility way (a once every twenty years event!) while staying familiar
- Goals:
 - Interoperability, Simplicity, Task Parallelism, Robustness
 - Design for change: abstraction, separation of public and internal parts
 - Improve speed where possible
 - Be used in experiment code developed for CERN Run 3