Contribution ID: **87** Type: **Oral**

Native Language Integrated Queries with CppLINQ in C++

Tuesday, 2 September 2014 14:50 (25 minutes)

Programming language evolution brought to us the domain-specific languages (DSL). They prooved to be very useful for expressing specific concepts, turning into a vital ingredient even for generic-purpose frameworks. Supporting declarative DSLs (such as SQL) into imperative languages (such as C++) can happen in the manner of language integrated query (LINQ).

We approach to integrate a similar to LINQ programming language, native to C++. We review its usability in the context of the high energy physics. We present examples using CppLINQ for many common workflows done by the end-users doing data analysis and simultaion. We discuss evidences how this DSL technology can simplify massively parallel grid system such as PROOF.

Primary author: VASILEV, Vasil Georgiev (CERN)

Presenter: VASILEV, Vasil Georgiev (CERN)

Session Classification: Computing Technology for Physics Research

Track Classification: Computing Technology for Physics Research