Current analysis status and TODO for very forward π^0 A_N
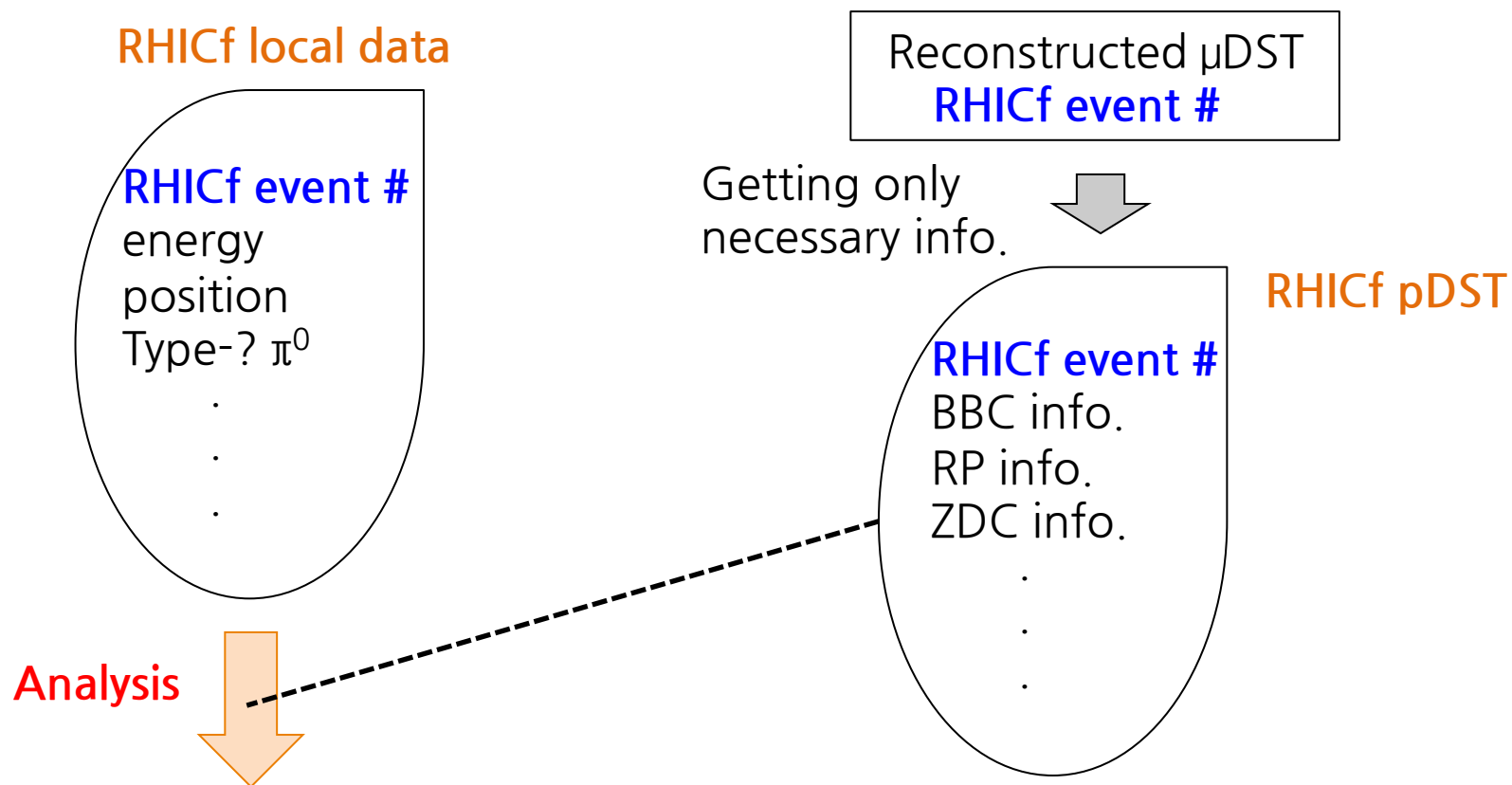
10 Jan. 2018
Minho Kim

Standalone analysis

Raw data $\longrightarrow$ Reconstruction data $\longrightarrow$ Results

- Leakage-in
- Leakage-out
- SumdE to E
    .
    .
    .

- Performance check

    Is the invariant mass width reasonable?
    Is the π^0 yield reasonable?
    .
    .

- Optimization of analysis cut values
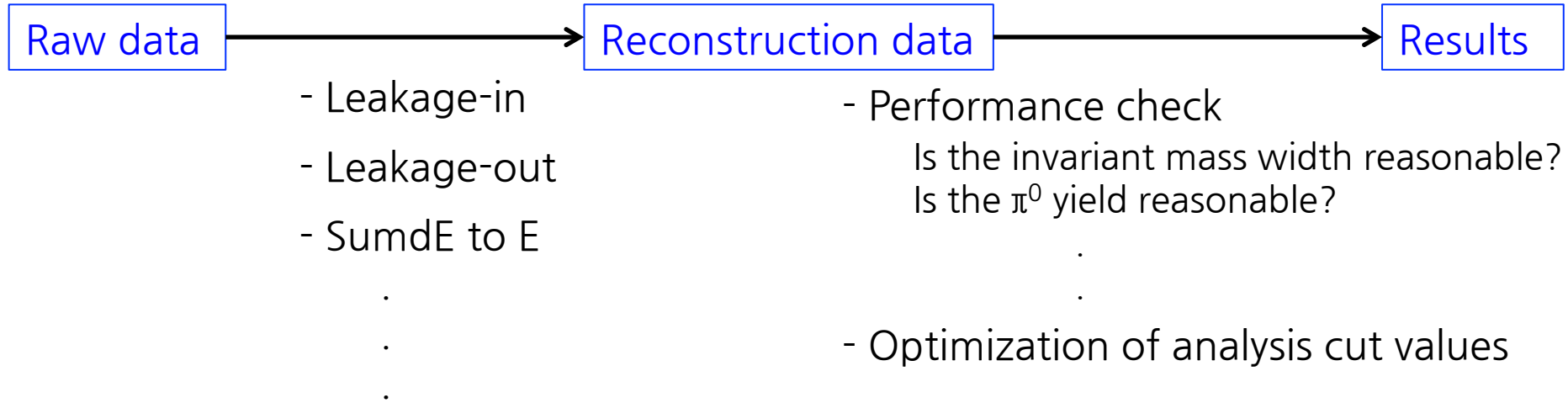
■ Now, we have all calibration and correction tools, leakage maps, SumdE to E parameters, and pedestal tables.

■ We also have simulation data for performance check and optimization of analysis cut values.

■ But further step is necessary to compare the simulation with data more properly, for example implementation of pedestal and crosstalk effect to simulation.

STAR combined analysis

RHICf local data

RHICf event #
energy
position
Type-? π^0
.
.
.

Analysis

Reconstructed µDST
RHICf event #

Getting only
necessary info.

RHICf pDST

RHICf event #
BBC info.
RP info.
ZDC info.
.
.
.

■ Currently, RHICf pDST is being analyzed primitively. A dedicated class is needed for more convenient and quick analysis.

Summary

- Tool 1: Conversion from simulation to A1Raw which is ADC-level format.

- Tood 2: A class to analyze the RHICf pDST easily.