Status and plan of the STAR combined analysis

May 10
Minho Kim

STAR combined analysis

Raw daq file

↓

MuDst file (raw)

↓

PicoDst file (rec)

↓
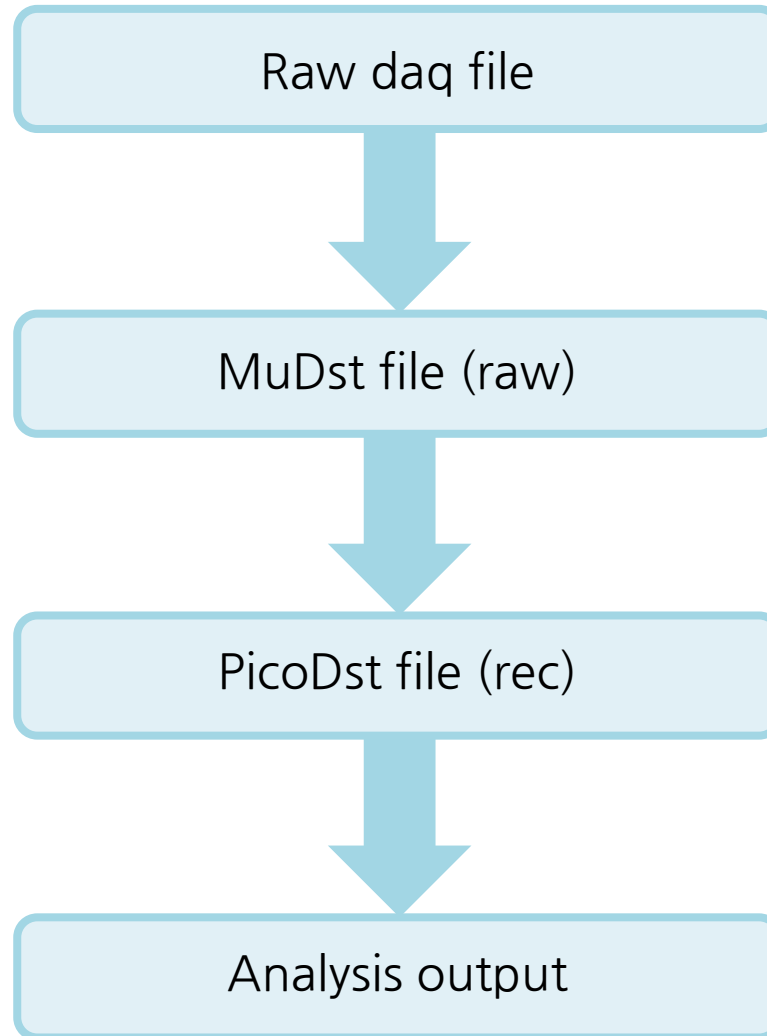
Analysis output

Status of the combined analysis

Raw daq file

- Code review was done.
- STAR will produce the official MuDst files in May.

MuDst file (raw)

Production

- Code review is under way.

Cross checks

PicoDst file (rec)

Analysis codes

- A simple analysis (neutron/photon selection → A_N calculation) was done.

Analysis output

A test

A_N by conditions

RHICf p↑+p → π⁰+X at √s = 510 GeV

Mon May 8 08:03:24 2023
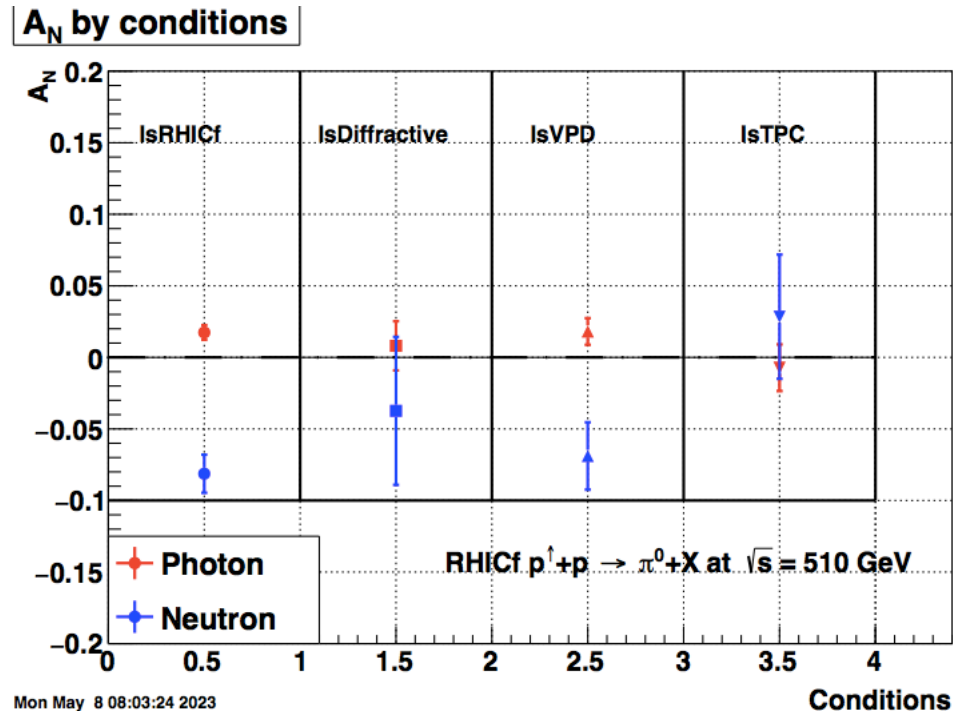
- Neutron shows negative A_N and photon shows positive A_N as expected.

- We will add more analysis to precisely reconstruct the particles including π^0 and to add STAR detector information.