



AGATA analysis workshop
September 2023



The PRISMA magnetic spectrometer:
analysis and data-processing

Hands on session

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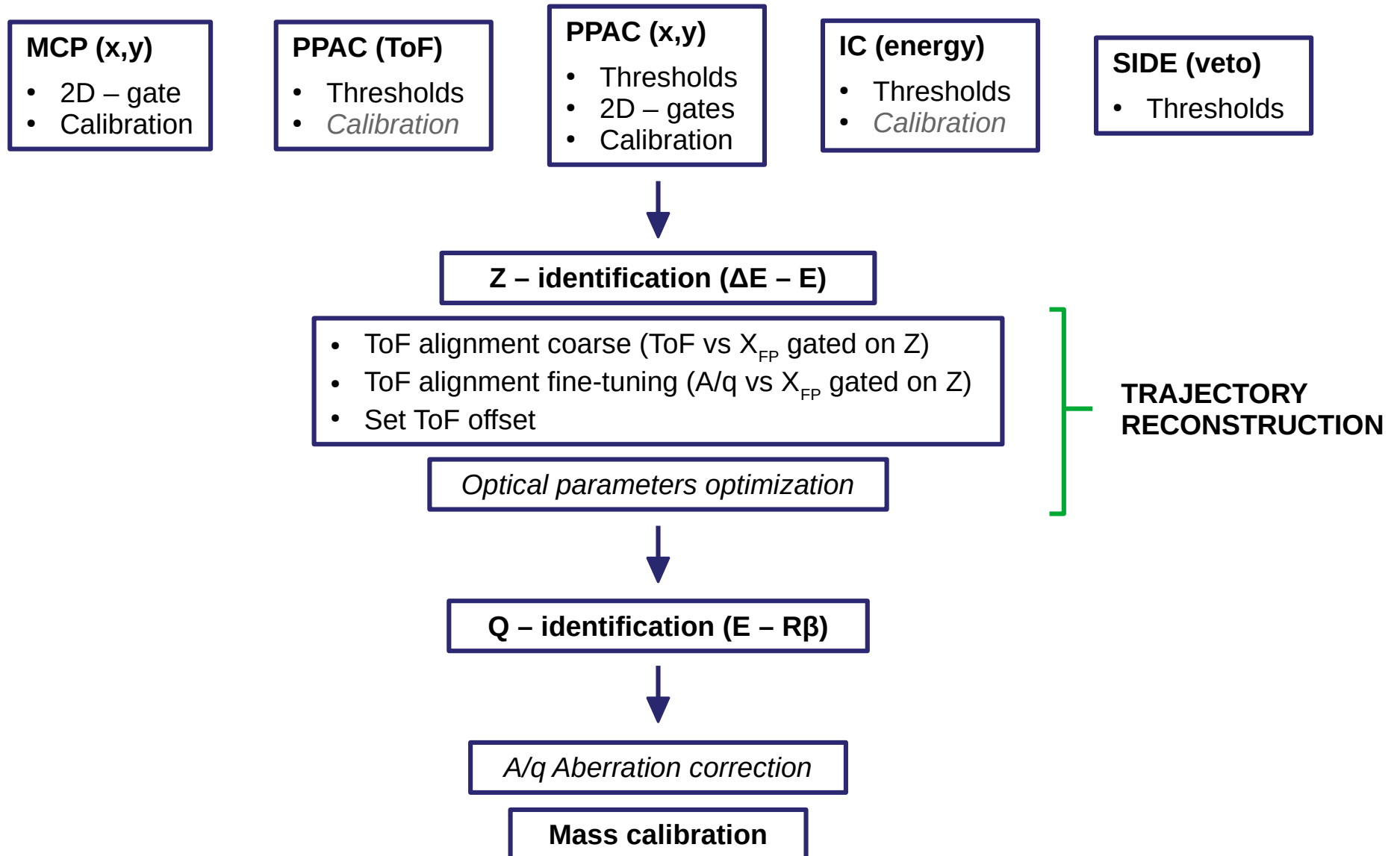
Experiment information

- Beam: ^{70}Zn @ 479 MeV
- Target: ^{238}U – 1 mg/cm²
- Prisma angle: 55 deg

Run Nr	# prisma files	# replay files
69	2	6
70	2	6
71	3	9

1. Install PrismaFilters and PrismaLibrary, download PrismaOnlinePackage
2. Setup your folder and change paths where needed
3. Run the PrismaFilters through RunAnalysis
4. Run the agataselector for Prisma only
5. Check calibrations, and thresholds using CheckCal and the AgataSelector
6. Try to do some A/q aberration correction and calibration
7. Perform update_prisma using the AgataSelector

Steps of the analysis



PrismaFilters

```
YOUR_PATH=$PWD

git clone https://baltig.infn.it/prisma/prisma_library.git
cd prisma_library
mkdir build lib
cd build
cmake .. -DCMAKE_INSTALL_PREFIX=$YOUR_PATH/prisma_library/install
cmake --build . --target install

export PRISMA_DIR=$YOUR_PATH/prisma_library/install
export LD_LIBRARY_PATH=$PRISMA_DIR/lib:$LD_LIBRARY_PATH

cd $YOUR_PATH
git clone https://baltig.infn.it/prisma/prismafilters.git
cd prismafilters
mkdir build
cd build
cmake .. -DROOT_OUTPUT=ON
make -j4

cd $YOUR_PATH
```

PrismaOnlinePackage

```
git clone https://baltig.infn.it/prisma/prismaonlinepackage.git
```

AgataSelector

```
git clone https://baltig.infn.it/gamma/agataselector.git
```