

GSI/FAIR Heavy-Ion Experiments

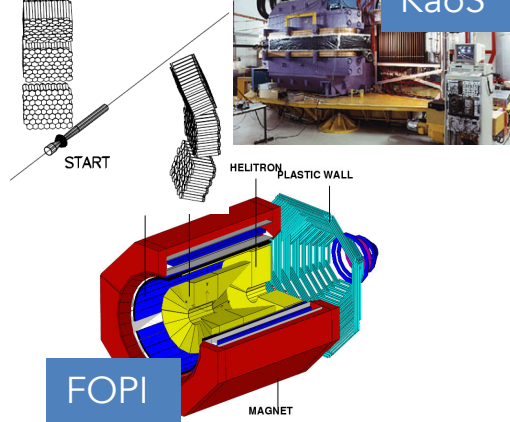


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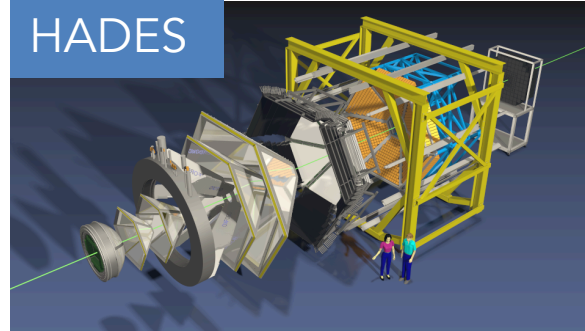
TAPS

KaoS

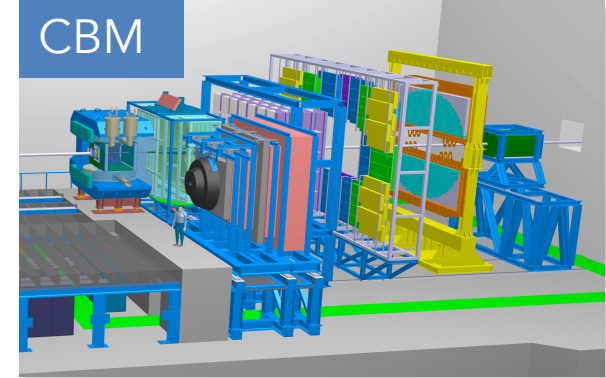


FOPi

HADES



CBM



High luminosity / high statistics
→ statistical errors negligible
dominated by systematic errors.

$\sqrt{s_{NN}} = 2.2 - 2.7 \text{ GeV}$

3.3 - 7.7 GeV

Past

Present

Future

Example: HADES

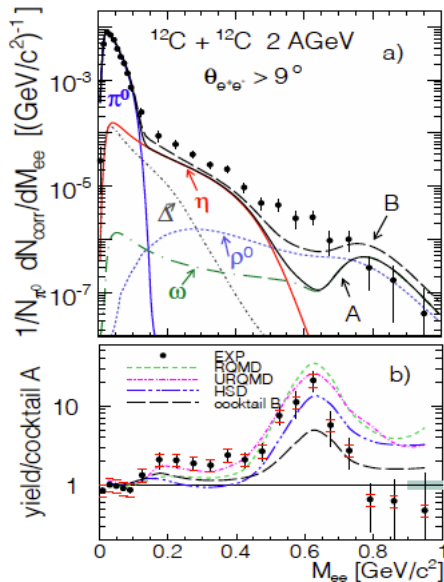
HAFT

The Hades Acceptance Filter for Theorists

Consists of acceptance matrices,
one per particle type, i.e. e^-e^+
and of a momentum smearing function
that models the detector resolution.

Written in Fortran.

Mainly used for
dilepton spectra.



•Phys.Rev.Lett. 98 (2007) 052302

Trigger Emulator

Currently under construction for:

- A+A collisions
- Elementary $\pi,p+p/A$ collisions?

Model Data Comparison: Personal Opinion

- Standardized (e.g. trigger selection)
- Quantitative (parameter)
- Based on most direct observable (pt-spectra)
- Easy reproducible

→ RIVET seems to be a good platform

“Driver for progress”