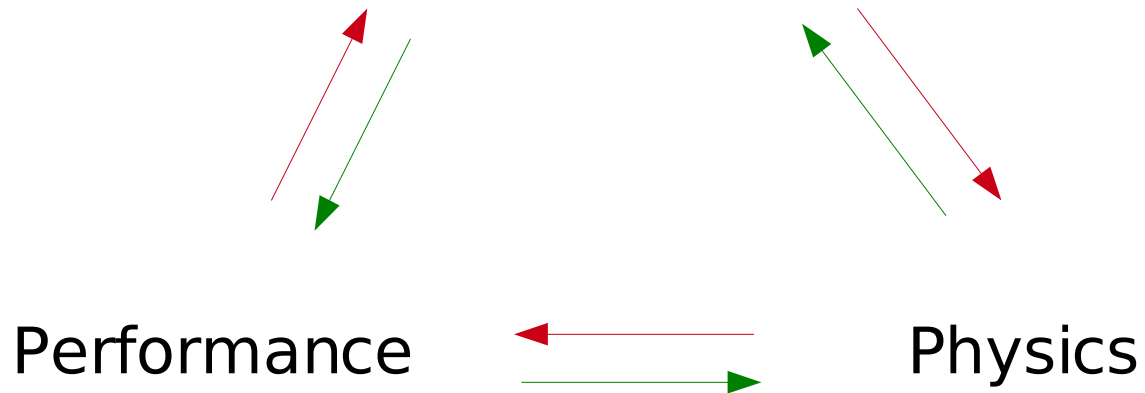


# Discussion WP1 / WP2

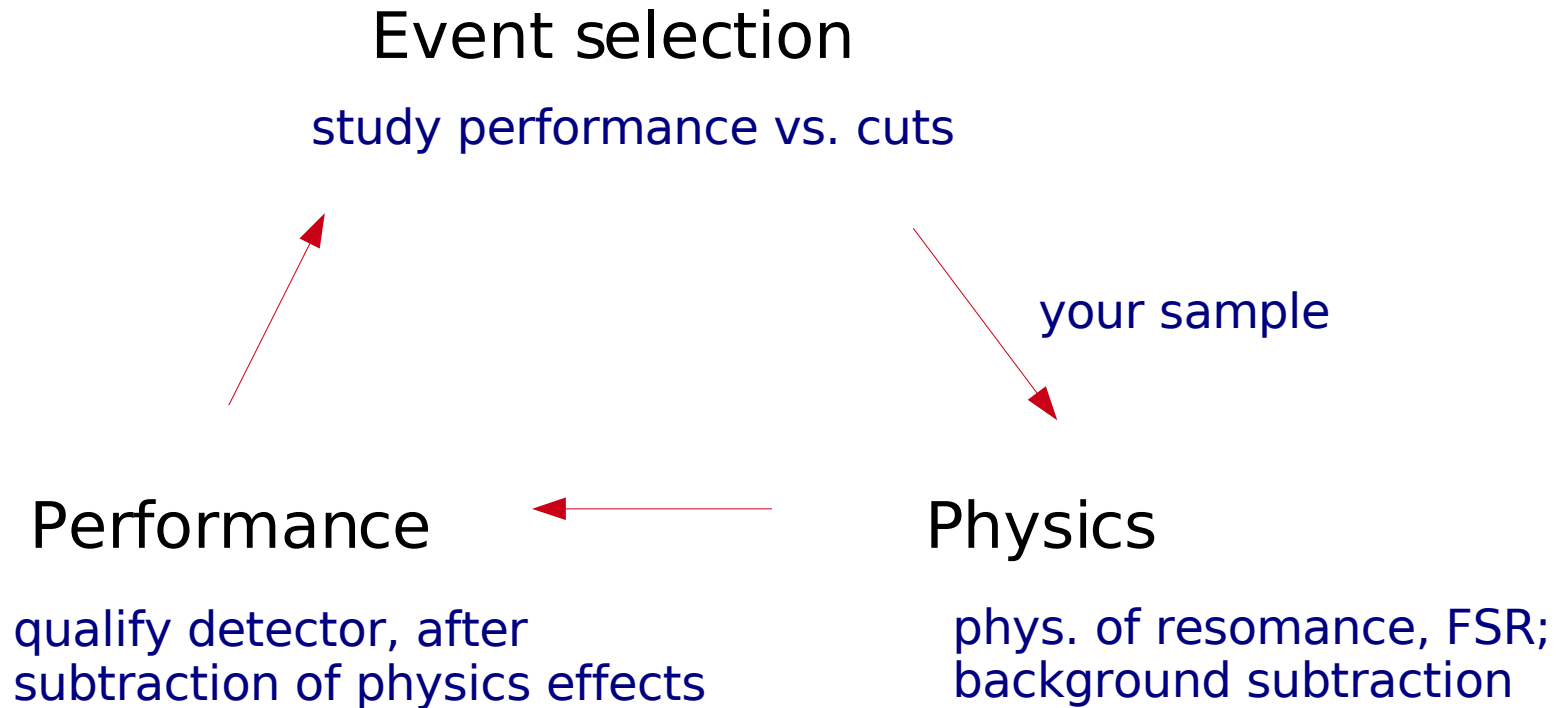
- Physics and performance : iterative feedback

## Event selection



# Discussion WP1 / WP2

- Physics and performance : iterative feedback



# Discussion WP1 / WP2

- Physics and performance : iterative feedback

## Event selection

vary cuts : optimize, check stability

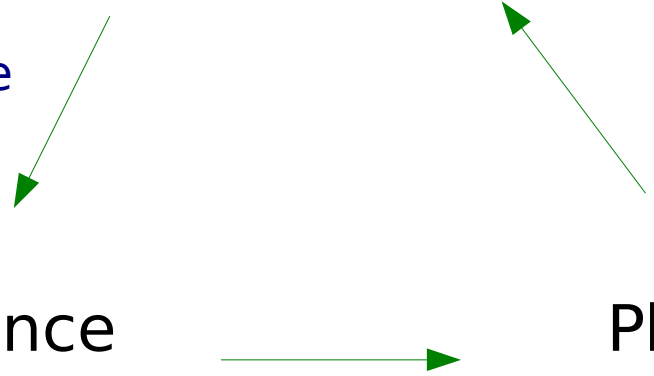
your sample

Performance

correct for efficiency,  
scale, resolution, backgrounds

Physics

obtain cross-section



# Discussion

## WP1 / WP2

- Needed items
  - methods (tag&probe, MC based calibration, scale and resolution from resonances, background from data...)
    - ~all exist
    - notable exception : fake rates
  - Algorithms (i.e concrete Athena code)
    - very few exist
    - main exception : tag and probe
  - I/O : store/retrieve detector performance
    - dB?
    - text files?
  - Applications
    - apply detector performance to MC; unsmear data
    - compare MC-based and in-situ calibration results
    - ...?

# Discussion

## WP1 / WP2

- Recent mail from PhysCo / PAT :

As already discussed on several occasions, there is a need to focus the work on "analysis tools", to ensure that the right tools are in place for early data analysis. The development of such tools should also be coherent, so that there is not unnecessary duplication.

...

We would like to start, now, by making a list of such tools that exist, that don't yet exist, and areas where tools are needed.

...

Example topics/tools are:

- tag and probe for e + mu (home = e/g + mu group)
- track isolation (tracking + e/g group)
- calorimeter isolation (e/g + jets)
- tag jet reconstruction (jet / etmiss)
- trigger efficiency measurements (trigger)
- "data cleaning" tools (data preparation)
- cluster/jet/electron overlap tools (calo-perf/eg/jets)
- cluster/jet truth particle matching (calo/tracking/truth)

- ....

We encourage you to think about this, and to provide feedback, comments and especially suggestions for topics.

....

# Discussion

## WP1 / WP2

- the collaboration needs this within ~few months
- as we said : most methods exist and results have been shown in many occasions. Now “industrialisation phase”
- Can we make a plan defining:
  - in general : what is missing?
  - where can we contribute?
  - make small groups attacking the problem?