GDR-Inf "Hand's On" project:

Combination and interpretation of experimental results

Meeting #2, 9/10/2020

General points to be addressed

- Techniques to exchange large amount of information, beyond a central value and uncertainty
- Statistical issues that could be improved
- Model dependence of experimental analyses
- Theory (SM/BSM) dependence of experimental analyses
- Consistency of similar measurements among different experiments
- ...

Examples:

- Combination of results w/ different experimental layouts
  - Angular observables w/ different binning scheme
  - Results w/ different phase space coverage
- Update of results when external inputs that are updated, e.g.
  - LHCb *BR(B→μμ)* using average of 2 normalisation modes
  - LHCb R_{pK}

  (Justine's examples, see Jérôme's slides)
- Data recasting
  - Accounting for the muon mass at low q^2 in *b->sll* measurements (see Jérôme's slides)
  - Limit on *BR(B->K*τμ)* for specific models (see Francesco's slides)
- ... Suggestions ?