

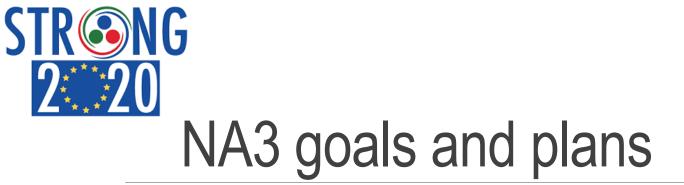


NA3: Quark-Gluon Plasma characterization with jets

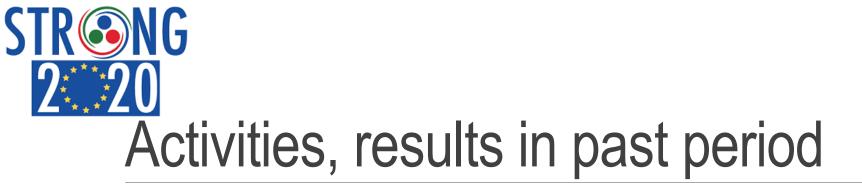
Guilherme Milhano, Marco van Leeuwen



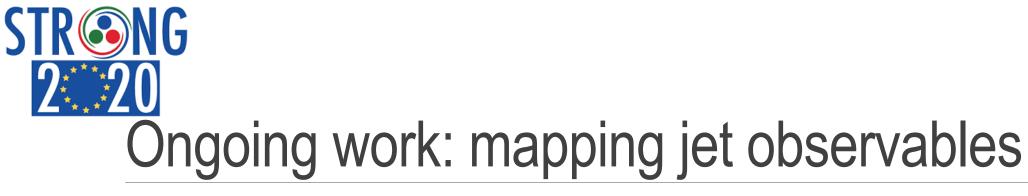
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- Theory-experiment collaboration on probing the QGP with jets
- Main goal: survey/benchmark of *observables*:
 - Large number of potential jet shape/structure observables
 - Identify observables that are sensitive to specific aspects of parton energy loss
- One parton energy loss model as main reference
- Provide public tools for the above

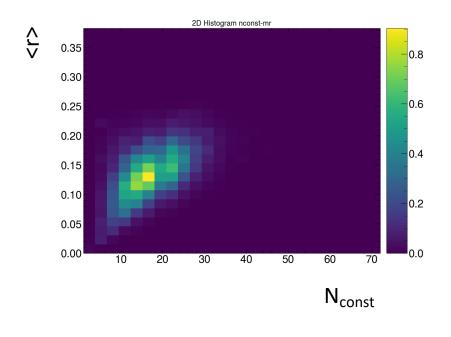


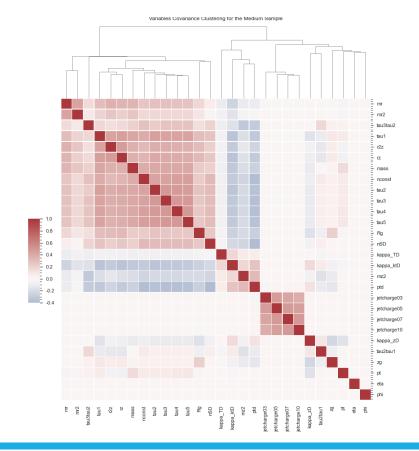
- Postdoc hired at LIP
- o Kick-off discussion meeting
- Select reference model: JEWEL (milestone)
 - Well-documented; clear physics picture in model
 - Clear connection to analytical calculations
 - Made available in a <u>Docker container</u> for portability/ease of use
- Survey of observables ongoing
 - Plan next meeting when first results are available
- Format of future meetings: regular (e.g. bi-weekly) short videoconference meetings instead of workshop



Dendogram: correlations between variables

Mapping correlations between variables:





STRONG-2020 Annual Meeting, October 14-15, 2020