# **Self-assessment**

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Group : “MC Glauber model”, group 2

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PURPOSE

This is a self-assessment to help with understanding performance of the student.

PROJECT GOALS AND DECRIPTION OF WORK

1. Develop Glauber MC model to describe Pb-Pb collisions at LHC
2. Use Glauber MC to predict values of v2 and v3 vs collision centrality (compare to flow

measurements)

1. Use Glauber MC model to predict size of initial collision zone R vs centrality (compare to HBT measurements)

DESCRUPTION OF WORK WITHININ GROUP 2

* + 1. Preliminary work including code development of sampling from Woods-Saxon distribution, debugging, Github page created:[github\_Glauber\_model](https://github.com/JianlingTang/Glauber_implementation)
    2. Data visualisation E.g: Scipy plots,average plots, numbers grouping
    3. Data optimisation(statistical error and systematic error, randomness discussion)
    4. Glauber model refinement(re-construct collision model resulting improved accuracy of geometric quantities)
    5. Paper presentation (Title,Intro, abstract, conclusion, uncertainties, referencing) and paraphrasing
    6. Presentation slides preparation , effective communication with other group members
    7. MC Glauber running and advanced tesing (10,000 events 5 times to identify associated fluctuations and systematic uncertainties)

CONTRIBUTION TO CLASS:

Helped with group 1 coding

Actively participating in classroom activities including asking related question in class.

Responsive to questions in class.

WHAT I’VE LEARNED

1. Groupwork and how to communicate effectively with others amidst covid-19 remote situation.
2. How to start a new computational project and build-up of a model
3. A lot of coding skills
4. Data presentation in a proper manner.
5. Significance of two-particle correlation study
6. How to write scientific paper and referencing tips

FEEDBACK

1. The way that lectures was delivered is motivating
2. Research-oriented learning is quite effective to undergraduates like me.