

Name: Colturi Last name: Claudio Date:15/07/2024

Name: Carotti Last name: Stefano

Send to enrico.prati@unimi.it and sebastiano.corli@polimi.it and wait for approval. We recommend to ask approval with sufficient advance (at least 3 weeks) before the examination day you plan, so you may start to work on the project once you received approval.

AI Models for Physics 2023/24

PROPOSAL OF EXAMINATION PROJECT

Title:____ Exploiting Spin Glass model on Graph Neural Networks_____

Learning method/algorithm used: GNN, MLP

Objective: (max 3 lines):___Studying the energy of a spin glass system with fixed number of nodes as the connectivity in the graph changes with GNN, comparing the learning capability between a GNN and a MLP._____

Based on a previously existing project:

(X) No, it is totally new not based on code of others

() Yes, I have partly used code from the following repositories (Qiskit, Mitiq, Github....):

[url: http://....](http://...)

...

Reference used: Lessons and labs of the course

Link(s):

....

Needed dataset:

() Not needed

(X) Yes: I have original data from synthetic data made for this project

() Yes: Published here [url: http//....](http://...)