

# DEPARTMENT OF PHYSICS

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## TO WHOM IT MAY CONCERN

This is to certify that research work entitled “**MEASUREMENT OF MULTIJET CROSS-SECTION RATIOS IN PROTON-PROTON COLLISIONS WITH THE CMS DETECTOR AT THE LHC**” is carried out by Anterpreet Kaur under the supervision of Prof. Manjit Kaur in the department of Physics, Panjab University, Chandigarh, is a piece of original work and no part of this work has been submitted for any other degree at this or any other University/Institute. It is further certified that the thesis has also been thoroughly checked on anti-plagiarism software and nothing has been found which can be considered as plagiarism.

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