


Certificate

This is to certify that this dissertation, entitled "Estimating $ZZ \rightarrow \ell\ell\nu\nu$ background in the $\ell\ell + E_T^{\text{miss}}$ final state using $Z\gamma \rightarrow \ell\ell\gamma$ data", submitted towards the partial fulfilment of the BS-MS dual degree programme at the Indian Institute of Science Education and Research (IISER), Pune, represents the work carried out by Mangesh Sonawane at the Deutsches Elektronen-Synchrotron (DESY), Hamburg, under the supervision of Dr. Beate Heinemann, Professor of Experimental Particle Physics at the Institute of Physics, University of Freiburg, during the academic year 2017-2018.


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29.03.2018



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