


Certificate

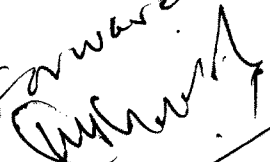
This is to certify that the dissertation entitled "A NEWMAN AND PENROSE TYPE TETRAD FORMALISM", submitted by Ms. Manjusha M. Patil to the Shivaji University, Kolhapur for the award of Degree of Master of Philosophy in Mathematics, ^{is} ~~This work~~ carried out ~~by her~~ under my supervision and guidance and embodies the work entirely done by her.

Place : Kolhapur

Date : 19/05/65


416004
Department of Mathematics,
(Dr. J.S. Kulkarni)
KOLHAPUR - 416004
Research Guide

Professor and Reader
Department of Mathematics
Shivaji University, Kolhapur

Forwarded

Incharge Head
Department of Mathematics
Shivaji University,
KOLHAPUR - 416004

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