

CERTIFICATE

This is to certify that the Dissertation entitled **The Curvature, Torsion, Bitorsion of the World line of the time-like Particle in Space-time metrics** submitted by **Mr. C. S. Ainapure** for the award of the degree of **Master of Philosophy in Mathematics** of **Shivaji University, Kolhapur** is duly completed under my supervision and guidance and embodies the work entirely done by him.

Place : Kolhapur

Date : 25/05/2004

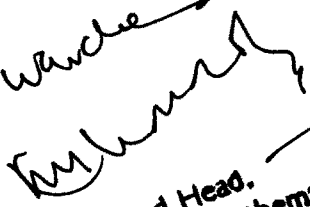


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