Declaration

I, Balachandra G. Hegde hereby declare that the work presented in this thesis is entirely original and has been carried out by me under the general guidance and supervision of Dr. Mrs. R. Chandramani, Reader, Department of Physics, Bangalore University, Bangalore - 560 056. Further, I declare that this work has not formed the basis for the award of any Degree, Diploma, Fellowship, Associateship or similar title of any University or Research Institutions.

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