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TALK : [\*High performance computing in atomic calculations\*](#)

Associate professor in the Theoretical Physics Division, Physical Research Laboratory, Ahmedabad, with the additional responsibility of Convener, Computational Science Group, Physical Research Laboratory.

Completed BSc and MSc from University of Delhi, Delhi, and later did PhD from Indian Institute of Astrophysics, Bangalore. Worked for two years as a JSPS post-doctoral fellow at the Graduate School of Advanced Sciences of Matter, Hiroshima University, Japan, and afterwards visited Indian Institute of Astrophysics and Center for Theoretical Physics, IISc, Bangalore. Joined PRL as a faculty in 2001.

Current research interest are concerning the physics of the Bose-Einstein condensates, which have blossomed into an exciting frontier in the last decade. The other areas of research are related to using atoms and molecules as probes of fundamental physics. In particular, possible consequences of symmetry violations. Research in all of these topics are compute intensive and require the use of high performance computing facilities. I have extensive experience of using and working on a variety of high performance computers. More importantly, we have developed large parallel codes for precision atomic many-body calculations and studying condensate physics.