

*curriculum vitae*

APARNA MAYBHATE  
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**General Information:**

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Date of Birth : November 20, 1970.

**Research Interests:**

- Extragalactic Globular Clusters.
- Starburst Galaxies.
- Interactions and mergers in galaxies.

**Employment:**

- Scientist at Space Telescope Science Institute, MD  
March 2008 - present.
- Post Doctoral Fellow at Space Telescope Science Institute, MD  
November 2005 - February 2008.
- Research Assistant at Penn State University, PA  
January 2005 - October 2005.
- Research Associate at Indian Institute of Science, Bangalore, India  
June 2001 - June 2002.
- Post Doctoral Fellow at Institut d'Astrophysique de Paris, France  
April 2000 - March 2001.

- Post Doctoral Fellow at Physical Research Laboratory, India  
March 1999 - March 2000.
- Research Scholar at Physical Research Laboratory, India  
August 1993 - March 1999.

### Academic qualifications:

- Ph.D. (Physics), 2000, Physical Research Laboratory, India.  
Thesis title : **Photometric Studies of Starburst Galaxies**  
Thesis supervisor : Prof. U.C. Joshi.
- M.Sc. (Physics), 1993, First class First rank, Maharaja Sayajirao University of Baroda, Baroda, India.
- B.Sc. (Physics), 1991, First class, Bombay University, Maharashtra, India.

### Additional qualifications:

- Experience in working on data from various space based : HST (Hubble Space Telescope), MSX (Midcourse Space Experiment), ISO (Infrared Space Observatory) and ground based DENIS (DEep Near Infrared Survey) of the Southern Sky and 2MASS (Two Micron All Sky Survey) surveys.
- Extensive experience in observing with the 1m class telescopes at Gurushikhar (India) and Nainital (India) using CCD cameras.
- Experience in calibration of filters.
- Experienced in the extensive use of IRAF and STSDAS image reduction and processing softwares.
- Proficient in using UNIX, Linux, FORTRAN, awk, SuperMongo, XMGR.
- Taught Introductory Astronomy Lab to undergraduates at Penn State University (Spring 2005).

### Memberships:

Member - American Astronomical Society.

## Publications:

1. Globular Cluster Populations in Four Early-Type Poststarburst Galaxies, **Maybhate, A.**, Goudfrooij, P., Schweizer, Puzia, T., & Carter, D., 2009, AJ, **137**, 383
2. An HI threshold for star cluster formation in tidal debris, **Maybhate, A.**, Masiero, J., Hibbard, J.E., Charlton, J.C., Palma, C., Knierman, K.A., & English, J., 2007, MNRAS, **381**, 59
3. Evidence for Three Subpopulations of Globular Clusters in the Early-Type Poststarburst Shell Galaxy AM 0139-655, **Maybhate, A.**, Goudfrooij, P., Schweizer, F., Puzia, T., & Carter, D., 2007, AJ, **134**, 1729
4. Measurement of non-axisymmetry in centers of advanced mergers of galaxies, Jog, C.J., & **Maybhate, A.**, 2006, MNRAS, **370**, 891.
5. Spiral-like light profiles but elliptical-like kinematics in mergers of galaxies, Jog, C.J., **Chitre, A.**, 2002, A&A, **393L**, 89.
6. Luminosity profiles of advanced mergers of galaxies using 2MASS data, **Chitre, A.**, Jog, C.J., 2002, A&A, **388**, 407.
7. ISOGAL: A deep survey of the obscured inner Milky Way with ISO at 7  $\mu\text{m}$  and 15  $\mu\text{m}$  and with DENIS in the near-infrared, Omont, A., Gilmore, G.F., Alard, C., .....**Chitre, A.**, et al., 2003, A&A, **403**, 975.
8. H $\alpha$  emission line morphologies in Markarian starburst galaxies, **Chitre, A.**, Joshi U.C., 2001, JApA, **22**, 155.
9. Photometric studies of starburst galaxies, **Chitre A.**, 2000, BASI, **28**, 423.
10. Star formation along a misaligned bar in the peculiar starburst galaxy Mkn 439, **Chitre A.**, Joshi U.C., Ganesh, S., 1999, A&A, **352**, 112.
11. Photometric studies of some starburst galaxies, **Chitre A.**, Joshi U.C., 1999, A&AS, **139**, 105.
12. A polarization study of comet Hyakutake (C/1996 B2), Joshi U.C., Baliyan K.S, Ganesh S.,**Chitre A.**,*et al.*, 1997, A&A, **319**, 694.
13. Comet C/1996 B2 (Hyakutake) Ganesh S.,**Chitre A.**, Vats H.O., 1996, IAUC 6371, 2

14. A near infrared polarimeter for astrophysical studies, Joshi, U.C., Manian, K.S.B., Chauhan, J.S., Shah, Vishal, **Chitre, A.**, Ganesh, S., Deshpande, M.R., 1997, BASI, **25**, 133
15. Multicolour Surface Photometry of Markarian Galaxies, **Chitre A.**, Joshi U.C. and Srivastava J.B., 1996, BASI 24, 819
16. Comet C/1996 B2 (Hyakutake), Ganesh S., **Chitre A.**, Vats H.O., Baliyan K.S., Joshi U.C., et al., 1996, IAUC, 6371, 2

### HST Instrument Science Reports:

1. Correcting Background Streaks in WFPC2 Data, **Maybhate, A.**, Grumm, D., McMaster, M., & Sirianni, M., 2008, ISR WFPC2 08-03

### Conference Proceedings:

1. Lopsidedness and Sloshing in the Centres of Advanced Mergers of Galaxies, Jog, C.J., & **Maybhate, A.**, 2008, "Formation and Evolution of Galaxy Bulges", Proceedings of the International Astronomical Union, IAUS, 245, 79 eds. M. Bureau, E. Athanassoula, B. Barbuy.
2. Properties of Globular Cluster Populations of Early-Type E+A Galaxies, **Maybhate, A.**, Goudfrooij, P., Schweizer, F., Puzia, T., & Carter, D., 2006, AAS, 20910004M.
3. Modes of Star Formation in an Early Universe Laboratory: An HST/ACS Survey of Hickson Compact Groups, Charlton, J.C., Gallagher, S.C., .....**Maybhate, A.**, ....., Zonak, S.G., 2006, AAS, 20911405C.
4. A Near Infrared Polarimeter for Astrophysical Study, Joshi U.C., Manian K.S.B., Chauhan J.S., **Chitre A.**, Shah V., 1996, Proceedings of the Third East Asian Meeting on Astronomy, July 17-21, 1995, Tokyo, Japan, 375.
5. Surface Photometry of some Active Galaxies, Joshi U.C.,**Chitre A.**,1996, Proceedings of the Third East Asian Meeting on Astronomy, July 17-21, 1995, Tokyo, Japan, 218.

**Observing programs and research support:**

- Co-Investigator, Hubble Space Telescope General Observer Proposal 11134,  
*WFPC2 Tidal Tail Survey: Probing Star Cluster Formation on the Edge* (\$31,732 received by me)
- Co-Investigator, Hubble Space Telescope General Observer Proposal 10787,  
*Modes of Star Formation and Nuclear Activity in an Early Universe Laboratory.*

**References:**

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