

Publications of Faculty Associated with CESSI

(1st April, 2016 to 31st March, 2017)

1. “A Proposed Paradigm for Solar Cycle Dynamics Mediated via Turbulent Pumping of Magnetic Flux in Babcock-Leighton-type Solar Dynamos”, Hazra, Soumitra; Nandy, Dibyendu; 2016, Astrophysical Journal, Volume 832, Issue 1, Article Number : 9.
2. “Space Weather Research: Indian perspective”, Bhardwaj, Anil; Pant, Tarun Kumar; Choudhary, R. K.; Nandy, Dibyendu; Manoharan, P. K.; 2016, Space Weather, Volume 14, Issue 12.
3. “Spin Hall effect of Light by Tailoring Space varying Polarization”, Pal, Mandira and Athira, BS and Mishra, Jatadhari and Nandy, Dibyendu and Ghosh, Nirmalya in 13th International Conference on Fiber Optics and Photonics, OSA Technical Digest, 2016.
4. “The Solar Ultraviolet Imaging Telescope onboard Aditya-L1”, Ghosh, Avyarthana; Chatterjee, Subhamoy; Khan, Aafaque R.; Tripathi, Durgesh; Ramaprakash, A. N.; Banerjee, Dipankar; Chordia, Pravin; Gandorfer, Achim M.; Krivova, Natalie; Nandy, Dibyendu; Rajarshi, Chaitanya; Solanki, Sami K.; Sriram, S., 2016, Proceedings of the SPIE, Volume 9905, Article Number: 990503.
5. “Fan Loops Observed by IRIS, EIS, and AIA”, Ghosh, Avyarthana; Tripathi, Durgesh; Gupta, G. R.; Polito, Vanessa; Mason, Helen E.; Solanki, Sami K., 2017, Astrophysical Journal, Volume 835, Issue 2, Article Number : 244.
6. “On the Bright Loop Top Emission in Post-eruption Arcades”, Sharma, Rohit; Tripathi, Durgesh; Isobe, Hiroaki; Ghosh, Avyarthana, 2016, Astrophysical Journal, Volume 823, Issue 1, Article Number : 47.
7. “A hot companion to a blue straggler in ngc188 as revealed by the ultra-violet imaging telescope (uvit) on astrosat”, Annapurni, Subramaniam; Sindhu, N.; Tandon S., N.; Kameswara, Rao N.; Postma, J.; Patrick, Cot'e; Hutchings, J.; Ghosh S., K.; K., George; Girish, V.; Mohan, R.; Murthy, J.; Sankarasubramanian, K.; Stalin C.,S.; Sutaria,F.;Mondal, C.;Sahu, S.,2016,Astrophysical Journal Letters, Volume 833, Issue 2, Article Number : L27.

8. “Relative Contribution of the Magnetic Field Barrier and Solar Wind Speed in ICME-associated Forbush Decreases”, Bhaskar A; Subramanian P; Vichare , 2016, Astrophysical Journal, Volume 828, Issue 2, Article Number : 104.
9. “Amplitude of solar wind density turbulence from 10 to 45 R_{\odot} ”, Sasikumar Raja, K.; Ingale, Madhusudan; Ramesh, R.; Subramanian, Prasad; Manoharan, P. K.; Janardhan, P., 2017, J. Geophys. Res. Space Physics, Volume 121, Issue 11, Article Number : 619.
10. “On Understanding the Nature of Collisions of Coronal Mass Ejections Observed by STEREO”, Mishra, Wageesh; Wang, Yuming; Srivastava, Nandita, 2016, Astrophysical Journal, Volume 831, Issue 1, Article Number : 99.
11. “Transient Weakening of Earth’s Magnetic Shield Probed by a Cosmic Ray Burst”, P. K. Mohanty, K. P. Arunbabu, T. Aziz, S. R. Dugad, S. K. Gupta, B. Hariharan, P. Jagadeesan, A. Jain, S. D. Morris, B. S. Rao, Y. Hayashi, S. Kawakami, A. Oshima, S. Shibata, S. Raha, P. Subramanian, and H. Kojima P., Physical Review Letters, Issue 17, Volume 117, Article Number : 171101.
12. “Reflection of Propagating Slow Magneto-acoustic Waves in Hot Coronal Loops: Multi-instrument Observations and Numerical Modeling”, Mandal, Sudip; Yuan, Ding; Fang, Xia; Banerjee, Dipankar; Pant, Vaibhav; Van Doorselaere, Tom; 2016, Astrophysical Journal, Volume 828, Issue 2, Article Number : 72.
13. “The Effects of Transients on Photospheric and Chromospheric Power Distributions”, Samanta, T.; Henriques, V. M. J.; Banerjee, D.; Krishna Prasad, S.; Mathioudakis, M.; Jess, D.; Pant, V., 2016, Astrophysical Journal, Volume 828, Issue 1, Article Number : 23.
14. “A Butterfly Diagram and Carrington Maps for Century-long CA II K Spectroheliograms from The Kodaikanal Observatory”, Chatterjee, Subhamoy; Banerjee, Dipankar; Ravindra, B. 2016 Astrophysical Journal, Volume 827, Issue 1, Article Number : 87.
15. “Dynamics of Subarcsecond Bright Dots in the Transition Region above Sunspots and Their Relation to Penumbral Micro-jets”, Samanta, Tanmoy; Tian, Hui; Banerjee, Dipankar; Schanche, Nicole, 2017, Astrophysical Journal Letters, Volume 835, Issue 2, Article Number : L19.

16. "Association of Plages with Sunspots: A Multi-Wavelength Study Using Kodaikanal Ca ii K and Greenwich Sunspot Area Data", Mandal, Sudip; Chatterjee, Subhamoy; Banerjee, Dipankar, 2017, *Astrophysical Journal*, Volume 835, Issue 2, Article Number : 158.
17. "Solar Active Longitudes from Kodaikanal White-light Digitized Data", Mandal, Sudip; Chatterjee, Subhamoy; Banerjee, Dipankar, 2017, *Astrophysical Journal*, Volume 835, Issue 1, Article Number : 62.
18. "Unravelling the Components of a Multi-thermal Coronal Loop using Magnetohydrodynamic Seismology", Prasad, S. K.; Jess, D. B.; Klimchuk, J. A.; Banerjee, D., 2017, *Astrophysical Journal*, Volume 834, Issue 2, Article Number : 103.
19. "Automated Detection of Coronal Mass Ejections in STEREO Heliospheric Imager Data", Pant, V.; Willems, S.; Rodriguez, L.; Mierla, M.; Banerjee, D.; Davies, J. A., 2016, *Astrophysical Journal*, Volume 833, Issue 1, Article Number : 80.
20. "Simultaneous Longitudinal and Transverse Oscillations in an Active-Region Filament", 2016, Pant, Vaibhav; Mazumder, Rakesh; Yuan, Ding; Banerjee, Dipankar; Srivastava, Abhishek K., Shen, Yuandeng, *Solar Physics* Volume 291, Issue 11.
21. "Transverse Oscillations in a Coronal Loop Triggered by a Jet", Sarkar, S.; Pant, V.; Srivastava, A. K.; Banerjee, D., 2016, *Solar Physics*, Volume 291, Issue 11. "Sunspot Sizes and the Solar Cycle: Analysis Using Kodaikanal White-light Digitized Data", Mandal, Sudip; Banerjee, Dipankar, 2016, *Astrophysical Journal Letters*, Volume 830, Issue 2, Article Number : L33.
22. "Statistical Study of Network Jets Observed in the Solar Transition Region: a Comparison Between Coronal Holes and Quiet-Sun Regions", Narang, Nancy; Arbacher, Rebecca T.; Tian, Hui; Banerjee, Dipankar; Cranmer, Steven R.; DeLuca, Ed E.; McKillop, Sean, 2016, *Solar Physics*, Volume 291, Issue 4.

23. "Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914", Abbott, B. P. et. al., 2016, (LIGO Sci Collaboration including Rajesh Nayak), Classical and Quantum Gravity, Volume: 33, Issue: 13, Article Number: 134001.
24. "High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube", Adrian-Martinez et. al., 2016, (LIGO Sci Collaboration including Rajesh Nayak), Physical Review D, Volume: 93, Issue: 12, Article Number: 122010.
25. "Search for transient gravitational waves in coincidence with short-duration radio transients during 2007-2013 ", Abbott, B. P. et. al., 2016, (LIGO Sci Collaboration including Rajesh Nayak), Physical Review D, Volume: 93, Issue: 12, Article Number: 122008.
26. "GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence", Abbott, B. P. et. al., 2016, (LIGO Sci Collaboration including Rajesh Nayak), Physical Review Letters Volume: 116 Issue: 24, Article Number: 241103.
27. "Properties of the Binary Black Hole Merger GW150914", Abbott, B. P. et. al., 2016, (LIGO Sci Collaboration including Rajesh Nayak), Physical Review Letters, Volume: 116, Issue: 24, Article Number: 241102.
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30. "Tests of General Relativity with GW150914", Abbott, B. P. et. al., 2016, (LIGO Sci Collaboration including Rajesh Nayak), Physical Review Letters, Volume: 116, Issue: 22, Article Number: 221101.
31. "Relationships between fluid vorticity, kinetic helicity and magnetic field at the small-scale (Quiet-Network) on the Sun", C.R. Sangeetha; S.P. Rajaguru, 2016, Astrophysical Journal, Volume 824, Issue 2, Article Number 120.

32. "Exploring the sensitivity of next generation gravitational wave detectors", Abbott B.P. et. al. (LSC including Rajesh Nayak and Anuradha Samajdar), 2017, Classical and Quantum Gravity, Volume 34, Issue 4, Article Number : 044001.
33. "The basic physics of the binary black hole merger GW150914", Abbott B. P. et. al (LSC including Rajesh Nayak and Anuradha Samajdar), 2017, Annalen der Physik, Volume 529, Issue 1.
34. "The rate of binary black hole mergers inferred from Advanced LIGO observations surrounding GW150914" Abbott et. al. (LSC including Rajesh Nayak and Anuradha Samajdar), 2016, Astrophysical Journal Letters, Volume 833, Issue: 1, Article Number: L1.
35. "Upper limits on the rates of binary neutron star and neutron star–black hole mergers from advanced ligo’s first observing run", Abbott B.P. et. al. (LSC including Rajesh Nayak and Anuradha Samajdar), 2016, Astrophysical Journal Letters, Volume 832, Issue: 2, Article Number: L21.
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39. "Binary black hole mergers in the first Advanced LIGO observing run", Abbott B.P. et. al. (LSC including Rajesh Nayak and Anuradha Samajdar), 2016, Physical Review X, Volume 6, Issue 4, Article Number: 041015.

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41. "Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data", Abbott B.P. et. al. (LSC including Rajesh Nayak and Anuradha Samajdar), 2016, Physical Review D, Volume 94, Issue 4, Article Number: 042002.
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(1st April, 2015 to 31st March, 2016)

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2. "Observation of Gravitational Waves from a Binary Black Hole Merger", R Nayak with LIGO Scientific collaboration, 2016, Physical Review Letters, 116, 061102
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4. "Searches for Continuous Gravitational Waves from Nine Young Supernova Remnants", R Nayak with LIGO Scientific collaboration, 2015, ApJ, 813, 39, 16 pp
5. "Characterization of the LIGO detectors during their sixth science run" R Nayak with LIGO Scientific collaboration, 2015, Classical and Quantum Gravity, 32, 115012
6. "Advanced LIGO", R Nayak, with LIGO Scientific collaboration, 2015, Classical and Quantum Gravity, 32, 074001.
7. CME Propagation: Where does Aerodynamic Drag 'Take Over'? Sachdeva, Nishtha; Subramanian, Prasad; Colaninno, Robin; Vourlidis, Angelos 2015, Astrophysical Journal, vol 809, p. 158
8. How are Forbush decreases related with interplanetary magnetic field enhancements? Arunbabu, K. P., Antia, H. M., Dugad, S. R., Gupta, S. K., Hayashi, Y., Kawakami, S., Mohanty, P. K., Oshima, A., and Subramanian, P. 2015, Astronomy and Astrophysics, vol 580, p A41

9. The structure of solar radio noise storms Mercier, C., Subramanian, P., Chambe, G. and Janardhan, P. 2015, *Astronomy and Astrophysics*, vol 576, p A136
10. Exploring the phase explosion of water using SOM-mediated micro-bubbles; Basudev Roy, Mayukh Panja, Subhrokoli Ghosh, Supratim Sengupta, Dibyendu Nandy and Ayan Banerjee. 2016, *New J. of Chemistry*, 40, 1048
11. Modeling Solar Coronal Bright-point Oscillations with Multiple Nanoflare Heated Loops- Chadrashkhar K., Sarkar Aveek; 2015, *ApJ*, 810, 163
12. "Characterization of an Acousto-Optic Tunable Filter for Development of a Near-IR Spectrometer for Planetary Science", Prince Agrawal, A. Nandi, M. Sudhakar, B. Jaiswal, Anurag Tyagi, and K. Sankarasubramanian, 2015, *Experimental Astronomy*, 39, 445.
13. 'P-mode Interaction with Sunspots'; Cally, P.S., Moradi, H., Rajaguru, S.P. 2016 (to appear), *AGU Chapman Reviews*.
14. "Modeling Approaches in Helioseismology" in Book 'Extraterrestrial Seismology', Cambridge University Press, Rajaguru, S.P., Chapter 9; August 2015, isbn: 9781107041721, eds. Vincent C.H. Tong and Rafael A. Garcia.
15. Kinematics of interacting CMEs of 25 and 28 September 2012, 2015, *Journal of Geophysical Research: Space Physics*, Wageesh Mishra, Nandita Srivastava, and Talwinder Singh, Volume 120, Issue 12, pp. 10,221-10,236
16. Heliospheric tracking of enhanced density structures of 2010 October 6 CME, 2015, *Journal of Space Weather and Space Climate*, Wageesh Mishra and Nandita Srivastava, Volume 5, id.A20, 12 pp.
17. Observations of Oppositely Directed Umbral Wavefronts Rotating in Sunspots Obtained from the New Solar Telescope of BBSO, Su, J. T.; Ji, K. F.; Cao, W.; Banerjee, D.; Priya, T. G.; Zhao, J. S.; Bai, X. Y.; Chen, J.; Zhang, M.; Ji, H. S., 2016, *ApJ*, 817, 117.
18. Detection of High-Frequency Oscillations and Damping from Multi-slit Spectroscopic Observations of the Corona, Samanta, T.; Singh, J.; Sindhuja, G.; Banerjee, D., 2016, *Solar Physics*, 291,155. doi: 10.1007/s11207-015-0821-x
19. Interference of the Running Waves at Light Bridges of a Sunspot, Su, J. T.; Ji, K. F.; Banerjee, D.; Cao, W. D.; Priya, T. G.; Zhao, J. S.; Yu, S. J.; Ji, H. S.; Zhang, M., 2016, *ApJ*, 816, 30. doi:10.3847/0004-637X/816/1/30

20. Propagating Disturbances in the Solar Corona and Spicular Connection, Samanta, Tanmoy; Pant, Vaibhav; Banerjee, Dipankar, 2015, ApJL, 815, L16. doi: 10.1088/2041-8205/815/1/L16
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25. Quasi-periodic Oscillation of a Coronal Bright Point, Samanta, Tanmoy; Banerjee, Dipankar; Tian, Hui, 2015, ApJ, 806, 172. doi:10.1088/0004-637X/806/2/172
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(Before 1st April, 2015)

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5. “Directed search for gravitational waves from Scorpius X-1 with initial LIGO data” R Nayak with LIGO Scientific collaboration, 2015, *Physical Review D*, 91, 062008.
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