

Complete List of Publications of Prof. Chanda J. Jog, July 2018:

Publications in Refereed Journals:

2018:

1. Ghosh, S., & **Jog, C.J.**(2018) "Effect of finite disk-thickness on swing amplification of non-axisymmetric perturbations in a sheared galactic disk", **Astron. & Astrophys.**, Accepted for publication, In press.
2. S. Sarkar, & **Jog, C.J.** (2018) "The constraining effect of gas and the dark matter halo on the vertical stellar distribution of the Milky Way", **Astron. & Astrophys.**, Accepted for publication, In press.
3. Ghosh, S., & **Jog, C.J.** (2018) "Dwarf irregular galaxies with extended HI gas disks: Suppression of small-scale spiral structure by dark matter halo", **New Astronomy**, **63**, 38 (also, arXiv: 1803.01998)

2017:

4. Prasad, C., & **Jog, C.J.** (2017) "Off-center dark matter halo leading to strong central disk lopsidedness", **Astron. & Astrophys.**, **600**, A17 (also, arXiv: 1610.01702)
5. Ghosh, S., Saini, T.D., & **Jog, C.J.** (2017) "Effect of dark matter halo on global spiral modes in a collisionless galactic disk", **New Astronomy**, **54**, 72 (also, arXiv: 1606.08543)
6. Fensch, J., Renaud, F., Bournaud, F., Duc, P.-A., Agertz, O., Amram, P., Combes, F., Di Matteo, P., Elmegreen, B., Emsellem, E., **Jog, C. J.**, Perret, V., Struck, C., Teyssier, R. (2017) "High-redshift major mergers weakly enhance star formation", **Mon. Not. Roy. Astron. Soc.**, **465**, 1934 (also, arXiv: 1610.03877)

2016:

7. Ghosh, S., & **Jog, C.J.** (2016) "Dynamical effect of gas on spiral pattern speed in galaxies", **Mon. Not. Roy. Astron. Soc.**, **459**, 4057 (also, arXiv: 1604.05401)
8. Ghosh, S., Saini, T.D., & **Jog, C. J.** (2016) "Effect of dark matter halo on global spiral modes in galaxies", **Mon. Not. Roy. Astron. Soc.**, **456**, 943 (also, arXiv: 1511.05536)

2015:

9. Ghosh, S., & **Jog, C.J.** (2015) "Role of gas in supporting grand spiral structure" **Mon. Not. Roy. Astron. Soc.**, **451**, 5868 (also, arXiv: 1506.01038)

2014:

10. **Jog, C.J.** (2014) "Effective Q Criterion for Disk Stability in an External Potential", **Astronomical Journal**, **147**, 132

11. Saha, K., & **Jog, C.J.** (2014) "Angular momentum transport and evolution of lopsided galaxies", **Mon. Not. Roy. Astron. Soc.**, **444**, 352 (also, arXiv: 1407.3349)

12. Ghosh, S., & **Jog, C.J.** (2014), "Suppression of gravitational instabilities by dominant dark matter halo in low-surface-brightness galaxies", **Mon. Not. Roy. Astron. Soc.**, **439**, 929 (also, arXiv:1401.1271)

13. Freundlich, J., **Jog, C. J.**, & Combes, F. (2014), "Local stability of a gravitating filament: a dispersion relation" **Astron. & Astroph.**, **564**, A7 (also, arXiv:1402.0977)

2013:

14. **Jog, C.J.** (2013), "Jeans instability criterion modified by external tidal field", **Mon. Not. Roy. Astron. Soc. Letters**, **434**, L56 (also, arXiv:1306.4425)

15. Rathulnath, R., & **Jog, C.J.** (2013), "Dynamics of prolate spheroidal mass distributions with varying eccentricity", **Mon. Not. Roy. Astron. Soc.**, **433**, 719 (also, arXiv:1305.1408)

16. Banerjee, A., & **Jog, C.J.** (2013), "Why are some galaxy discs extremely thin?", **Mon. Not. Roy. Astron. Soc.**, **431**, 582 (also, arXiv:1210.8244)

2012

17. **Jog, C.J.** (2012), **an Invited article** on "On the low rate of star formation in the Low Surface Brightness (LSB) galaxies, presented at the "Workshop on Recent Advances in Star Formation", held at the Indian Institute of Astrophysics, Bangalore, June 2011, appeared in **Astronomical Society of India Conference Series, Vol. 4**, p. 145 (Ed. A. Subramanian)

2011:

18. Banerjee, A., & **Jog, C.J.** (2011), "Progressively more prolate dark matter halo in the outer Galaxy as traced by flaring HI gas", **Astrophysical Journal Letters**, **732**, L8 (also, arXiv: 1103.5821)

19. Qu, Y.; Di Matteo, P.; Lehnert, M. D.; van Driel, W.; Jog, C. J. (2011), "Minor mergers and their impact on the kinematics of old and young stellar populations in disk galaxies", **Astron. & Astrophys.**, **535**, A5 (also, arXiv: 1110.0769)

Highlighted on the cover of the issue as the Editor's Choice.

20. Banerjee, A., **Jog, C.J.**, Brinks, E., & Bagetakos, I. (2011), "Theoretical determination of HI vertical scale heights in the dwarf galaxies: DDO 154, HoII, IC2574 & NGC2366", Accepted for publication in **Mon. Not. Roy. Astron. Soc.**, **415**, 687 (also, arXiv: 1103.4494)

21. van Eymeren, J., Juette, E., **Jog, C.J.**, Stein, Y., & Dettmar, R.-J. (2011), "Lopsidedness in WHISP galaxies: I. Rotation curves and kinematic lopsidedness", Accepted for publication in **Astron. & Astrophys.**, **530**, A 29 (also, arXiv:1103.4928)

22. van Eymeren, J., Juette, E., **Jog, C.J.**, Stein, Y., & Dettmar, R.-J. (2011), "Lopsidedness in WHISP galaxies: II. Morphological lopsidedness", Accepted for publication in **Astron. & Astrophys.**, **530**, A 30 (also, arXiv:1103.4929)

23. Chowdhury, D., Vempati, S., & **Jog, C.J.** (2011), "Results from PAMELA, ATIC and FERMI : Pulsars or Dark matter?", a Topical Review, **Pramana**, **76**, 1-22

24. **Jog, C.J.** 2011, "Pattern Speed of Lopsidedness in Galactic Disks", **An invited review**, in Proceedings of the meeting "Tumbling, Twisting, and Winding Galaxies: Pattern Speeds along the Hubble Sequence", Padova, Italy, August 2008, E. M. Corsini and V. P. Debattista (eds.), **MSAIS - Memorie della Societa Astronomica Italiana Supplement**, v.18, p.119 (also, arXiv.org: 0812.0670)

2010:

25. Pranav, P., & **Jog, C.J.**, 2010, "Response of a galactic disc to vertical perturbations : Strong dependence on density distribution", **Mon. Not. Roy. Astron. Soc.**, **406**, 576 - 585 (also, arXiv: 1003.3327).

26. Banerjee, A., Matthews, L., **Jog, C.J.** , 2010, "Dark matter dominance at all radii in the superthin galaxy UGC 7321", **New Astronomy**, **15**, 89 - 95. (also, arXiv: 0906.0217).

27. Qu, Y., Di Matteo, P., Lehnert, M., van Driel, W., **Jog, C.J.**, 2010, "The slowing down of galaxy disks in dissipationless minor mergers", **Astron. & Astrophys.**, **515**, A11.

2009:

28. **Jog, C.J.**, & Combes, F. 2009, **A Review Article** titled "Lopsided spiral galaxies", **Physics Reports**, **471**, 75 - 111 . (also, arXiv: 0811.1101).

Impact factor of Journal = 22.9

29. Di Matteo, P., **Jog, C.J.**, Lehnert, M.D., Combes, F., & Semelin, B. 2009, "Generation of rotationally dominated galaxies by mergers of pressure-supported progenitors", **Astron. & Astrophys. Letters**, **501**, L9 - L13, (also, arXiv: 0906.0010).

30. Saha, K., Levine, E., **Jog, C.J.**, Blitz, L. 2009, "The Milky Way's dark matter halo appears to be lopsided" , **Astrophysical Journal**, **697**, 2015 - 2019 (also, arXiv: 0903.3802).

31. **Jog, C.J.**, & Maybhate, A. (2009), "Lopsidedness and sloshing in centres of advanced mergers of galaxies", in "Formation and Evolution of Galaxy Bulges", Proceedings of the International Astronomical Union, IAU Symposium Volume 245, p. 79-80 (held at Oxford, UK), Ed. M. Bureau.

2008:

32. Banerjee, A.,& **Jog, C.J.**, 2008, "The flattened dark matter halo of M31 as deduced from the observed HI scale heights", **Astrophysical Journal**, **685** 254 - 260 (also, arXiv.org: 0806.3610).

2007:

33. Bournaud, F., **Jog, C. J.**, & Combes, F. 2007, "Multiple minor mergers: formation of elliptical galaxies and constraints for the growth of spiral disks", **Astron. & Astrophys.**, **476**, 1179 - 1190 (also, arXiv: 0709.3439)

34. Saha, K., Combes, F., & **Jog, C.J.** 2007, "Global lopsided instability in a purely stellar galactic disc", **Mon. Not. Roy. Astron. Soc.**, **382**, 419 - 432 (also, arXiv: 0708.2873)

35. Angiras, R.A., **Jog, C.J.**, Dwarakanath, K.S., & Verheijen, M., 2007, "Spatial and kinematical lopsidedness of atomic hydrogen in the Ursa Major group of galaxies **Mon. Not. Roy. Astron. Soc.**, **378**, 276 - 284 (also, astro-ph/0703709)

36. Banerjee, A. & **Jog, C.J.**, 2007, "The origin of steep vertical stellar distribution in the Galactic disk", **Astrophysical Journal**, **662**, 335 - 340 (also, astro-ph/0703169)

2006:

37. **Jog, C. J.**, & Maybhate, A. 2006, "Measurement of Nonaxisymmetry in Centres of Advanced Mergers of Galaxies", **Mon. Not. Roy. Astron. Soc.**, **370**, 891 - 901 (also, astro-ph/0605251)

38. Angiras, R.A., **Jog, C.J.**, Omar, A., & Dwarakanath, K.S. 2006, "Origin of Disc Lopsidedness in Eridanus Group Galaxies", **Mon. Not. Roy. Astron. Soc.**, **369**, 1849 - 1857 (astro-ph/0604120)

39. Saha, K., & **Jog, C.J.** 2006 b, "Self-consistent response of a galactic disk to vertical perturbations", **Mon. Not. Roy. Astron. Soc.**, **367**, 1297 - 1307 (also, astro-ph/0601160)

40. Saha, K., & **Jog, C.J.** 2006 a, "On the Generation of Asymmetric Warps in Galaxies", **Astron. & Astrophys.**, **446**, 897 - 904 (also, astro-ph/0510804)

2005:

41. Narayan, C.A., Saha, K., & **Jog, C.J.** 2005, "Constraints on the Halo Density Profile using HI Flaring in the Outer Galaxy ", **Astron. & Astrophys.**, **440**, 523 - 530 (also, astro-ph/0508358)

42. Bournaud, F., Combes, F., **Jog, C.J.**, & Puerari, I. 2005 , "Lopsided Spiral Galaxies: Evidence for Gas Accretion", **Astron. & Astrophys.**, **438**, 507 - 520(also, astro-ph/0503314)

43. **Jog, C.J.** 2005, "Advanced Mergers of Galaxies: Luminosity Profiles and Dynamics", **B.A.S.I.**, **33**, 201 - 208

44. Bournaud, F., **Jog, C.J.**, & Combes, F. 2005, "Galaxy Mergers with various Mass Ratios: Properties of Remnants", **Astron. & Astrophys.**, **437**, 69 - 85 (also, astro-ph/0503189)

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45. Bournaud, F., Combes, F., & **Jog, C.J.** 2004, "Unequal-mass Galaxy Merger Remnants: Spiral-like Morphology but Elliptical-like Kinematics", **Astron. & Astrophys. Letters**, **418**, L27 - L30 (also, astro-ph/0403307)

2003:

46. Narayan, C.A., & **Jog, C.J.** 2003, 'The puzzle about the radial cut-off in galactic disks', **Astron. & Astrophys. Letters**, **407**, L59 - L62 (also, astro-ph/0307389)

47. **Jog, C.J.** 2003, 'Rotation curves of galaxies: evidence for dark matter', **Physics Education**, **January-March issue**, 281 - 284

2002:

48. Narayan, C.A., & **Jog, C.J.** 2002 b, 'Vertical Scaleheights in a Gravitationally Coupled, Three-component Galactic Disk', **Astron. & Astrophys.**, **394**, 89 - 96, (also, astro-ph/0210239)

49. **Jog, C.J.**, & Chitre, A. 2002, 'Spiral-like Light Profiles but Elliptical-like Kinematics in Mergers of Galaxies', **Astron. & Astrophys. Letters**, **393**, L89 - L93, (also, astro-ph/0210138)

50. **Jog, C.J.** 2002, 'Large-Scale Asymmetry of Rotation Curves in Lopsided Spiral Galaxies', **Astron. & Astrophys.**, **391**, 471 - 479, (also, astro-ph/0207055)

51. Narayan, C.A., & **Jog, C.J.** 2002 a, 'Origin of Radially Increasing Stellar Scaleheight in a Galactic Disk', **Astron. & Astrophys. Letters**, **390**, L35 -L38 (also, astro-ph/0207453)

52. Chitre, A., & **Jog, C.J.** 2002, 'Luminosity Profiles of Advanced Mergers of Galaxies Using 2MASS Data', **Astron. & Astrophys.**, **388**, 407 - 424, (also, astro-ph/0206097)

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53. **Jog, C.J.**, & Narayan, C.A. 2001, 'Vertical Distribution of Galactic Disc Stars and Gas Constrained By A Molecular Cloud Complex', **Mon. Not. Roy. Astron. Soc.**, **327**, 1021 - 1028, (also, astro-ph/0110331)

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54. **Jog, C.J.** 2000, 'Self-consistent Response of a Galactic Disk to an Elliptical Perturbation Potential', **Astrophys.J.**, **542**, 216 - 223, (also, astro-ph/0007364)

55. **Jog, C.J.** 2000, 'Lopsided Spiral Galaxies', **Invited Review, BASI**, **28**, 351 - 356

1999:

56. Das, M., & **Jog, C.J.** 1999, 'Tidally Compressed Gas in Centres Of Early-Type and Ultraluminous Galaxies', **Astrophys.J.**, **527**, 600 - 608 , (also, astro-ph/9907157)

57. **Jog, C.J.** 1999, 'Dynamics in a Lopsided Spiral Galaxy: Negative Disk Response to Perturbation Halo Potential', **Astrophys.J.**, **522**, 661 - 668

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58. **Jog, C.J.** 1997, 'The Dynamics of Orbits and Local Gas Stability in a Lopsided Galaxy', **Astrophys.J.**, **488**, 642 - 651.

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59. **Jog, C.J.**, & Das, M. 1996, 'Starbursts Triggered by Central Overpressure: II. A Parameter Study', **Astrophys. J.**, **473**, 797 - 805.

60. Das, M., & **Jog, C.J.** 1996, 'Collisional Build-Up of Molecular Clouds: Mass and Velocity Spectra', **Astrophys. J.**, **462**, 309 - 315.

61. **Jog, C.J.** 1996, 'Local Stability Criterion for Stars and Gas in a Galactic Disk', **Mon. Not. Roy. Astron. Soc.**, **278**, 209 - 218.

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62. Das, M., & **Jog, C.J.** 1995, 'Internal Heating of Molecular Clouds by Tidal Fields', **Astrophys.J.** , **451**, 167 - 175.

63. **Jog, C.J.** 1995, 'Galaxy Interactions, Starburst Galaxies and AGN Connection', a review , **B.A.S.I.**, **23**, 135 - 158.

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64. **Jog, C.J.** 1993, 'Galactic Rotation', **Current Science**, **65**, No.2, 138 - 142.

65. **Jog, C.J.** 1993, 'Starburst Galaxies - AGN Connection : Theoretical Scenario', Invited review, **B.A.S.I.**, **21**, 235 - 243.

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66. Jog, C. J., & Das, M. 1992, 'Starbursts Triggered by Central Overpressure In Interacting Galaxies', **Astrophys. J.**, **400**, 476 - 483.

67. Jog, C. J. 1992, 'Swing Amplification Of Non-Axisymmetric Perturbations In Stars And Gas In A Sheared Galactic Disk', **Astrophys.J.**, **390**, 378 - 386.

68. Jog, C.J. & Solomon, P.M. 1992, 'A Triggering Mechanism For Enhanced Star Formation In Colliding Galaxies', **Astrophys.J.**, **387**, 152 - 161.

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69. Gammie, C.F., Ostriker, J.P., & Jog, C.J. 1991, 'The Velocity Dispersion Of Giant Molecular Clouds. II. Mathematical and Numerical Refinements', **Astrophys.J.**, **378**, 565 - 575.

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72. Jog, C.J. & Ostriker, J.P. 1988, 'The Velocity Dispersion Of Molecular Clouds: A Viscous Origin', **Astrophys.J.**, **328**, 404 - 426.

1984:

73. Jog, C.J., & Solomon, P.M. 1984, 'Two-Fluid Gravitational Instabilities In A Galactic Disk', **Astrophys.J.**, **276**, 114 - 126.

74. Jog, C.J., & Solomon, P.M. 1984, 'A Galactic Disk As A Two-Fluid System: Consequences For The Critical Stellar Velocity Dispersion And The Formation Of Condensations In The Gas', **Astrophys.J.**, **276**, 127 - 134.

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75. Jog, C.J. & Smith, R.A. 1982, 'Mixed Lattice Phases In Cold Dense Matter', **Astrophys.J.**, **253**, 839 - 841.

Conference proceedings:

76. Freundlich, J., **Jog, C. J.**, Combes, F. (2015), "Perturbation growth within self-gravitating interstellar filaments" IAU General Assembly, Meeting no. 29, held at Honolulu, Hawaii, USA, August 2015

77. Freundlich, J., **Jog, C. J.**, Combes, F., & Anathpindika, S. 2014, "On the stability of self-gravitating filaments", Appeared in "SF2A-2014: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics", Eds.: J. Ballet et al., pp.325-328

78. di Matteo, P., & **Jog, C.J.**, Editors, 2013, "The structure of galaxy disks shaped by secular evolution and environmental processes". Conference Proceedings for the Special session of EWASS 2012 (European Week in Astronomy & Astrophysics 2012), **Memorie della Societa Astronomica Italiana Supplement**, v.25, p.3

79. Juette, E., van Eymeren, J., **Jog, C. J.**, Dettmar, R.-J., Stein, Y. (2013), "Lopsidedness in disk galaxies", presented at EWASS, session on "The structure of galaxy disks shaped by secular evolution and environmental processes", **MSAIS**, 25, 55

80. Davies, R.L., and 11 authors including **Jog, C.J.** (2012) "COMMISSION 28: GALAXIES TRIENNIAL REPORT, International Astronomical Union", in Proceedings of the International Astronomical Union, Vol. 7, Transactions T28A, pp 255-259

81. Di Matteo, P., Qu, Y., Lehnert, M. D., van Driel, W., & **Jog, C. J.** (2011) "Minor mergers and their impact on the kinematics of galaxy discs", in EAS Publications Series, Volume 45, 2011, pp.389-392

82. **Jog, C.J.** 2010, **an Invited talk** on "Tracing the dark matter halos of galaxies by modeling the observed HI gas distribution", presented at the "Daniel Chalonge Meudon Workshop on the Dark matter in the Universe", held at the Observatory of Paris at Meudon, France in June 2010, arXiv.org: 1007.2441, eds. H.G. de Vega, N.G. Sanchez

83. **Jog, C.J.** 2009, "Galaxy evolution by Mergers", **an Invited talk** presented at the special session on "Star formation history" at the Astronomical Society of India meeting held at the Indian Institute of Astrophysics, Bangalore, Feb. 19, 2009, **B.A.S.I.**, In press

- 84.** Banerjee, A., Matthews, L.D., & **Jog, C.J.** 2009, "Dark Matter Halo Properties as Deduced from the Observed H I Scale Height Data", in "The Low-Frequency Radio Universe" ASP Conference Series, Vol. 407, proceedings of the conference held at NCRA-TIFR, Pune in 2008. Edited by D. J. Saikia et al.. San Francisco: Astronomical Society of the Pacific, p.99
- 85.** Angiras, R.A., **Jog, C.J.**, Dwarakanath, K.S., Omar, A., & Verheijen, M.A.W "Origin of Disk Lopsidedness in Spiral Galaxies", in "The Low-Frequency Radio Universe" ASP Conference Series, Vol. 407, proceedings of the conference held at NCRA-TIFR, Pune in 2008. Edited by D. J. Saikia et al. San Francisco: Astronomical Society of the Pacific, p.79
- 86.** **Jog, C.J.** & Maybhate, A. 2008, "Lopsidedness and sloshing in centres of advanced mergers of galaxies" in "Galactic Bulges", Proceedings of the IAU symposium 245, eds. Bureau et al., Cambridge: Cambridge Univ. Press), pg. 79-80
- 87.** Angiras, R.A., **Jog, C.J.**, Omar, A., & Dwarakanath, K.S. 2008, "Spatial lopsidedness of atomic hydrogen gas in Eridanus group", **BASI**, Proceedings of 25th Proc. 25th meeting of the ASI, bf 25, 74-75
- 88.** **Jog, C.J.** 2006, "Vertical Distribution of Stars and Gas in a Galactic Disk", in the Proceedings of "Island Universes: Structure and evolution of disk galaxies" (Terschelling, The Netherlands, July 2005), ed. R. de Jong (Astrophysics and Space Science Proceedings, Springer), pg. 137-141 (also, astro-ph/ 0508672)
- 89.** **Jog, C.J.**, & Narayan, C.A. 2005, "Vertical Distribution in a Galactic Disk Constrained by a Molecular Cloud Complex", in Proceedings of the Dusty and Molecular Universe: a Prelude to Herschel and ALMA, held in Paris, France during Oct. 2004, ed. A. Wilson, ESP SP-577, Noordwijk, the Netherlands, 287
- 90.** Narayan, C.A., & **Jog, C.J.** 2002, 'Vertical Scaleheights of Stars and Gas in the Galaxy', **B.A.S.I.**, **30**, 703-704.
- 91.** **Jog, C.J.**, & C.A. Narayan 2001, 'Vertical Distribution of Galactic Disc Stars and Gas Constrained By A Molecular Cloud Complex', **B.A.S.I.**, **29**, 343-345
- 92.** **Jog, C.J.** 2000, 'Local Stability Criterion For A Two-Component Galactic Disk', **B.A.S.I.**, **28**, 309-310
- 93.** Das, M., & **Jog, C.J.** 2000, 'Tidally Compressed Gas In Centres Of Galaxies', **B.A.S.I.**, **28**, 389-391

94. **Jog, C.J.** 1999, ‘Starbursts Triggered By Cloud Compression In Interacting Galaxies’, **Invited Review**, in **Galaxy Interactions at Low and High Redshift**, IAU Symposium 186, eds. J.E. Barnes, & D.B. Sanders (Kluwer: Dordrecht), 235- 242.
95. Das, M., & **Jog, C.J.** 1995, ‘Internal Heating of Molecular Clouds By Galactic Tidal Fields’, **B.A.S.I.**, **23**, 510-511.
96. Das, M., & **Jog, C.J.** 1995, ‘The Effect Of Time Dependent Tidal Forces On Molecular Clouds’, in Proceedings of Sixth Asia-Pacific Meeting on Astronomy, **J.Astr.Ap., Suppl. to Vol. 16**, 295-296.
97. Das, M. & **Jog, C.J.** 1993, ‘Starbursts Triggered by Central Overpressure in Interacting Galaxies’, **B.A.S.I.**, **21**, 451-452.
98. **Jog, C.J.** 1993, ‘Swing Amplification in Stars and Gas : Origin of Local Spiral Structure In Galaxies’, **B.A.S.I.**, **21**, 437-439.
99. **Jog, C. J.**, & Das, M. 1993, ‘Starbursts Triggered by Central Overpressure In Interacting Galaxies’, in ‘**The Evolution of Galaxies and their Environment**, Proceedings of the Third Teton Summer School, eds. J.M. Shull et al. (NASA Conference Publications No. 3190), 155-156.
100. **Jog, C.J.**, & Solomon, P.M. 1991, ‘A Triggering Mechanism For Enhanced Star Formation In Colliding Galaxies’, in ‘**Dynamics Of Galaxies and Their Molecular Cloud Distributions**’, I.A.U. Symposium no. 146, eds. F.Combes and F. Casoli (Dordrecht: Reidel), 277.
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102. Valluri, M., & **Jog, C.J.** 1990, ‘Collisional Removal Of HI From The Inner Disks Of Virgo Cluster Galaxies’, in ‘**Paired And Interacting Galaxies**’, I.A.U. Colloquium no. 124, eds. J.W. Sulentic and W.C. Keel (NASA Conference Publications No. 3098), 683-686.
103. **Jog, C.J.**, & Ostriker, J.P. 1986, ‘The Velocity Dispersion of the Giant Molecular Clouds: A Viscous Origin’, in Abstracts, **First Teton Summer School on Interstellar Processes**, Wyoming, U.S.A. (eds. D.J. Hollenbach, and H.A. Thronson), 74-75.

104. **Jog, C.J.**, & Ostriker, J.P. 1985, 'Viscous Origin Of the Velocity Dispersion of the Giant Molecular Clouds', **Bull.Ame.Astr.Soc.**, **17**, No.2, 614.
105. **Jog, C.J.** 1985, 'Two-Fluid Gravitational Instabilities In The Galaxy', in **The Milky Way Galaxy**, IAU Symposium no. 106,, Eds. H. Van Woerden, R.J. Allen, and W.B. Burton (Dordrecht: Reidel), 505.
106. **Jog, C.J.** 1982, 'Two-Fluid Gravitational Instabilities In The Galaxy', in **Extragalactic Molecules**, NRAO Conf. Publications, ed. L. Blitz, 199-210.