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## LIST OF PUBLICATIONS

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- [1] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "PIC Simulation Study of a 35 GHz, 200 kW Gyroklystron," *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, Vol. 12, No. 2, pp. 116-125, 2013.
- [2] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Estimation of the Electronic Efficiency of a Gyroklystron Amplifier," *International Journal of Microwaves Applications*, Vol. 2, No. 1, pp. 23-27, 2013.
- [3] Sunny Paswan, **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Analytical Studies of a Five-Cavity, 140 GHz Gyroklystron Amplifier," *INROADS*, Vol. 3, No.1, pp. 153-156, 2014.
- [4] M. V. Swati, Rajeev Sharma, **M. S. Chauhan**, and P. K. Jain, "Multimode Simulation and Analysis of Two-Cavity Gyroklystron," *INROADS*, Vol. 3, No.1, pp. 254-257, 2014.
- [5] **M. S. Chauhan**, and P. K. Jain, "Electron Bunching in the Gyroklystron Amplifiers," *International Journal on Advanced Circuits and Systems*. (Accepted)
- [6] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Design and Simulation of a Gyroklystron Amplifier," communicated for publication in *Physics of Plasmas*.
- [7] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Nonlinear Analysis of a Four-Cavity Gyroklystron Amplifier," communicated for publication in *IEEE Transactions on Plasma Science*.
- [8] M. V. Swati, **M. S. Chauhan** and P. K. Jain, "Beam-Wave Interaction Study of a Second Harmonic Gyroklystron Amplifier," *National Conference on Recent Advances in Electronics & Computer Engineering (RAECE-2015)*, Roorkee, India, 13-15 February 2015. (Accepted)
- [9] M. V. Swati, **M. S. Chauhan**, and P. K. Jain, "Multimode Analysis of a W-Band Gyroklystron Amplifier," *IEEE MTT-S International Microwave and RF Conference (IMaRC-2014)*, Bangalore, India, 15-17 December 2014.
- [10] Sunny Paswan, **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Analytical Studies of a Five-Cavity, 140 GHz Gyroklystron Amplifier," *International Conference on Innovative Advancements in Engineering And Technology (IAET-2014)*, Jaipur, India, 7-8 March 2014.

- [11] M. V. Swati, Rajeev Sharma, **M. S. Chauhan**, and P. K. Jain, "Multimode Simulation and Analysis of Two-Cavity Gyroklystron," *International Conference on Innovative Advancements in Engineering And Technology (IAET-2014)*, Jaipur, India, 7-8 March 2014.
- [12] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Performance Evaluation of a Four-Cavity Gyroklystron Amplifier," *International Conference on Microwaves, Antenna, Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, 11-14 December 2013.
- [13] M. V. Swati, **M. S. Chauhan**, and P. K. Jain, "Multimode Analysis of a 35 GHz Gyroklystron Amplifier," *International Conference on Microwaves, Antenna, Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, 11-14 December 2013.
- [14] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Design and Simulation of a Four-Cavity Gyroklystron Amplifier," *National Workshop on Vacuum Electron Devices & its Applications (VEDA-2013)*, Roorkee, India, 18-20 October 2013.
- [15] M. V. Swati, **M. S. Chauhan**, and P. K. Jain, "Multimode Behavior Study of a Gyroklystron Amplifier," *National Workshop on Vacuum Electron Devices & its Applications (VEDA-2013)*, Roorkee, India, 18-20 October 2013.
- [16] **M. S. Chauhan**, and P. K. Jain, "Analytical and Simulation Studies of a 35 GHz Gyroklystron," *International Conference on Microwaves, Antenna, Propagation & Remote Sensing (ICMARS-2012)*, Jodhpur, India, 11-15 December 2012.
- [17] M. V. Swati, **M. S. Chauhan**, and P. K. Jain, "Analytical Study of a Four-Cavity Gyroklystron Amplifier," *International Conference on Microwaves, Antenna, Propagation & Remote Sensing (ICMARS-2012)*, Jodhpur, India, 11-15 December 2012.
- [18] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "PIC Simulation of 35 GHz Three-Cavity gyroklystron," *National Conference on Vacuum Electron Devices & its Applications (VEDA-2012)*, Pilani, India, 21-24 September 2012.
- [19] **M. S. Chauhan**, M. V. Swati, and P. K. Jain, "Beam-wave Interaction Study of Three-Cavity Gyroklystron," *National Conference on Recent Trends on Microwave Techniques and Applications (Microwave-2012)*, Jaipur, India, 30 July to 1 August 2012.

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- [24] **M. S. Chauhan**, and P. K. Jain, “Study of Electron Bunching in Gyroklystrons,” *International Vacuum Electronics Conference (IVEC-2011)*, Bangalore, India, pp. 289-290, 21-24 February 2011.
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- [26] **M. S. Chauhan**, and P. K. Jain, “Gyroklystron: A High Power Millimeter Wave Amplifier — Status and Capabilities,” *National Symposium on Vacuum Technology and its Applications to Electronic Devices and Systems (IVSNS-2009)*, Pilani, India, 11-13 November 2009.