

References

- Drouet d'Aubigny, C., Walker, C., Golish, D., Swain, M., Dumont, P., and Lawson, P., 2003, "Laser micro-machining of waveguide devices for submm and far IR interferometry detector arrays", SPIE, 4852, 568D.
- Francia, T., 1960, II Nuovo Cimento, **16**, 61
- Frank, I.M. 1942, Izv. Akad. Nauk. SSSR Ser. Fiz. **6**, 3
- Gerecht, E., et al. 2003, "TREND: a low noise terahertz receiver user instrument for AST/RO at the South Pole", Proc. SPIE, 4855, 574
- Gilmour, A., 1994, "Principles of Traveling Wave Tubes", Artech House Inc., Norwood, MA
- Groppi, C. E., Walker, C. K., Hungerford, A. L., Narayanan, G., & Lichtenberger, A. W. 2000, "345-GHz array receiver for the Heinrich Hertz Telescope", Proc. SPIE, 4015, 253
- Groppi, C. E., et al. 2003, "DesertSTAR: a 7 pixel 345 GHz heterodyne array receiver for the Heinrich Hertz Telescope", Proc. SPIE, 4855, 330
- Haeberle', O, Rullhusen, P., Salome', J.M., & Maene, W. 1994, "Calculations of Smith-Purcell radiation generated by electrons of 1-100 MeV", Phys. Rev E, **49**, 3340
- Haeff, A., U.S. Patent 2,064,469, filed Oct 23 1933, issued Dec 15 1936
- Hammer, J., and Wen, C. 1964, "Effect of High Magnetic Field on Electron-Beam Noise", RCA Review, December 1964, 785
- Hess, P., 1960, Ph.D. Dissertation, Univ. of California, Berkeley
- Kapp, O., Sun, Y., Kwang-Je Kim & Crewe, A. 2004, "Modification of a scanning electron microscope to produce Smith-Purcell radiation", Rev. of Scientific Instr., **75**, #11, 4732
- Kompfner, R., 1947, "The traveling wave tube as an amplifier at microwaves", Proc. IRE., **35**, 124
- Kube, G., Backe, H., Lauth, W. & Schöpe, H., 2003, "Smith-Purcell Radiation in View of Particle Beam Diagnostics", Proceedings DIPAC, Institut für Kernphysik, Mainz, Germany
- Lindenblad, N.E., U.S. Patent 2,300,052, filed May 04 1940, issued Oct 27 1942
- Pierce, J., 1950, "Traveling Wave Tubes", Van Nostrand, Princeton NJ
- Smith, S.J., & Purcell, E.M., 1953, "Visible Light from Localized Surface Charges Moving Across a Grating", Phys. Rev. **92**, 1069
- Smith et al., 2004, "Enhanced diffraction from a grating on the surface of a negative index metamaterial", PRL, **93**, #13, 24 Sept 2004
- Stark, A. A., et al. 2001, "The Antarctic Sub-millimeter Telescope and Remote Observatory", PASP, 113, 567
- Urata, J., Goldstein, M., Kimmitt, M., Naumov, A., Platt, C., & J.E. Walsh, 1998, "Superradiant Smith-Purcell Emission", Phys. Rev. Lett., **80**, 516

van den Berg, P. 1973, "Smith-Purcell radiation from a point charge moving parallel to a reflection grating", J. Opt. Soc. Am., **63**, 1588

Wartski L. et al. 1975, "Interference phenomenon in optical transition radiation and its application to particle beam diagnostics and multiple-scattering measurements", J. Appl. Phys. **46**, 3644

Waterman, J., 1979, "Folded Waveguide Millimeter Wave Circuit Model", Ph.D. Thesis, Stanford University

Yamaguti et al., 2002, "Photonic crystals versus diffraction gratings in Smith-Purcell radiation", Phys. Rev. B. **66**, 195202