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Proof of the Wave Nature of Plants ORVIN WAGNER, Wagner Research Laboratory — I assume plants operate with a set of frequencies. These frequencies and the means of these frequencies are equal in all directions. We can then write $(v_h/\lambda)_{avh}=(v_v/\lambda)_{avv}$ where the subscripts h and v represent horizontal and vertical respectively and av is average,. or $v_v/v_h=(1/\lambda_h)_{av}/(1/\lambda_v)_{av}$. I use an internodal spacing as $\lambda/2$ or the the distance between adjacent branches, leaves, etc. The ratios, v_v/v_h, are ratios of small integers for sufficient samplings. For example, for Ponderosa pine the ratio is 3/1 or for delicious apple 4/3. Note that these ratios represent the shape of the tree or other plant and their interactions with gravity. These ratios are derivable by other means such as use the ratio of # of horizontal needles per unit length from a horizontal sample to the # of needles per unit length from a vertical sample from p-pine. Or measure the vertical and horizontal velocities. My literature provides many other proofs of the wave nature of plants. I suggest that the waves in and related waves outside of plants (outside 4.9 m/s) are a dark matter related since they travel at such low velocities. See my present web site at home.budget.net/∼oedphd.

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