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Cover: A contour map of the momentum density distribution in the $p_x p_y$ plane for an electron in the $3t_2$ orbital of carbon tetrachloride. The distribution, obtained from SCF wavefunctions, shows that there is zero probability of the electron having zero momentum, with maxima at $p_x \sim p_y \sim \pm \frac{1}{2}$ of an atomic unit, and a number of other subsidiary maxima and minima. Courtesy of Erich Weigold, Electronic Structure of Materials Centre, The Flinders University of South Australia.

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