

**Concerning the significance of the quantum oscillations in the cuprate  
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Quantum oscillations of a variety of measurable quantities ( $C$ ,  $v$ ,  $\rho_{xx}$ ,  $\rho_c$ ,  $\rho_{xy}$ ,  $S$ ,  $\alpha$ ,  $\kappa$ ,  $M$ ) have been documented in the cuprate high temperature superconductors in high magnetic fields – made available in large part through efforts overseen by Greg Boebinger. I will discuss some aspects of their interpretation, and what these observations suggest concerning important features of the electronic structure of the cuprates.

Best