

Abstract Submitted  
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**Transport Properties in Electron-Doped  $\text{La}_{2-x}\text{Ce}_x\text{CuO}_4$  Thin Films**<sup>1</sup> KUI JIN, XIAOHANG ZHANG, PAUL BACH, RICHARD GREENE, University of Maryland, College Park — The electron-doped high-Tc cuprate  $\text{La}_{2-x}\text{Ce}_x\text{CuO}_4$  (LCCO) is quite different from other members, such as  $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$  (PCCO) and  $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$  (NCCO). One distinct difference is that the optimal Ce doping in LCCO is  $\sim 0.10$ , compared to Ce  $\sim 0.15$  in PCCO and NCCO. Here, we will present a detailed and systematic study of the magnetic field and temperature dependence of the transport properties of LCCO, including the low-temperature Hall effect and in-plane angular magnetoresistance.

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