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Bradley Weaver* (brw4sz@virginia.edu), 141 Cabell Drive, Charlottesville, VA 22904. *The Local Lifting Problem for D_4 .*

For a prime p , a cyclic-by- p group G and a G -extension $L|K$ of complete discrete valuation fields of characteristic p with algebraically closed residue field, the local lifting problem asks whether the extension $L|K$ lifts to characteristic zero. In this talk we shall motivate the local lifting problem (via the global lifting problem for curves), and discuss briefly why all G -extensions $L|K$ with $G = D_4$ (the dihedral group with eight elements) satisfy the local lifting problem for $p = 2$. (Received July 30, 2017)