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Brandy J Guntel* (bguntel@math.utexas.edu), Department of Mathematics, 1 University Station C1200, Austin, TX 78712. *Primitive/primitive and primitive/Seifert representatives of knots*. Preliminary report.

Berge described a class of knots that lie on the genus 2 surface F in S^3 which are primitive/primitive with respect to F and observed that surgery on these knots yields lens spaces. Later Dean generalized this concept to introduce knots that are primitive/Seifert with respect to F and observed that primitive/Seifert knots have small Seifert fibered surgeries. I will provide an introduction to these families of knots and answer some questions about uniqueness of primitive/primitive and primitive/Seifert representatives of knots. (Received September 09, 2010)