Kenneth Baker* (kb@math.gatech.edu), School of Mathematics, 686 Cherry Street, Georgia Institute of Technology, Atlanta, GA 30332, and Cameron Gordon and John Luecke. Creating small Seifert fiber spaces by Dehn surgery on knots in $S^3$. Preliminary report.

We overview the known bounds on distances of exceptional surgeries on hyperbolic knots in $S^3$ and discuss progress towards the outstanding case of small Seifert fiber spaces. (Received September 11, 2007)