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Title: Heegaard genus and Dehn filling.

Abstract: The context of the talk is the general question of the behavior of Heegaard genus under two distinct Dehn fillings on a 3-manifold with torus boundary; more specifically we consider the case where one of the fillings is  $S^3$ . The result is that there is a function w(g) such that if K is a hyperbolic knot in  $S^3$ , and some non-integral Dehn surgery on K gives a non-Haken manifold of Heegaard genus g, then the tunnel number of K is at most w(g). We will also discuss the special case g = 2 and its relevance to the conjecture that any Seifert fibered Dehn surgery on a hyperbolic knot in  $S^3$  must be integral. (Joint work with Ken Baker and John Luecke.)