1077-57-2123   **R. Sean Bowman*** (`sbowman@math.utexas.edu`). *Knots in handlebodies with handlebody surgeries.*

Let K be a knot in a handlebody H of genus g. It is a natural question to ask when K has a nontrivial Dehn surgery yielding a handlebody. We say that K is 1–bridge in H if K is isotopic to $\alpha \cup \beta$, where $\alpha \subseteq \partial H$ is an arc, β is properly embedded in H, and there is an arc $\beta' \subseteq \partial H$ such that $\beta \cup \beta'$ bounds a disk. When $g = 1$, so that H is a solid torus, Gabai noted that in order to have a nontrivial surgery yielding a solid torus, K must be 1–bridge. Wu conjectured that this should be true when $g > 1$ as well. In this talk we give examples of knots in genus 2 handlebodies which have nontrivial handlebody surgeries but which are not 1–bridge. (Received September 21, 2011)