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Sangbum Cho* (scho@math.ou.edu), Department of Mathematics, University of Oklahoma, Norman, OK 73019, and **Darryl McCullough**. *Bridge numbers of tunnel number one knots.*

In previous work we gave a descriptive theory of tunnel number one knots based on the disk complex of the genus two handlebody. It provides new invariants of tunnels, called the degree and the depth. In this talk, we present upper and lower bounds for the bridge number of a tunnel number one knot, in terms of these invariants of their tunnels. (Received September 17, 2007)