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Candice R Price* (candice.price@usma.edu). *Using Rational Knots and Links to Model Difference Topology Experiments*. Preliminary report.

Difference topology is a technique used to study a protein that can stably bind to DNA. This technique is used to determine the confirmation of the DNA bound by the protein. In this talk, I utilize a skein relation of rational knots and links to model the action of proteins used in these difference topology experiments. (Received September 16, 2014)