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Ian M Zemke* (izemke@math.princeton.edu). *Applications of the link Floer TQFT to the topology of surfaces in 4-space.*

We will discuss some formal properties of the link Floer TQFT, and describe how to use them to prove topological results about surfaces in 4-space. We will focus on describing how the link Floer TQFT gives lower bounds on several natural notions of distance between surfaces in B^4 which bound a fixed knot in S^3 . Some of this work is joint with András Juhász. (Received January 28, 2019)