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Margaret Doig*, mdoig@indiana.edu. *Heegaard Floer theory and finite surgeries.*

I will discuss recent work applying Heegaard Floer theory to questions about knot surgery, including the determination of which elliptic space forms can be constructed as surgery on a knot. If an elliptic space form does arise as surgery on a knot, I will address the question of what the knot may be. This question is interesting in the context of the Berge (respectively, Dean) Conjecture, which attempts to list the knots that support lens space (respectively, small Seifert fibered) surgeries. (Received September 25, 2012)