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Daniel Cristofaro-Gardiner and **Tara S Holm*** (tara.holm@cornell.edu), Department of Mathematics, Cornell University, Ithaca, NY 14850, and **Alessia Mandini** and **Ana Rita Pires**. *Symplectic embeddings and toric geometry*. Preliminary report.

I will discuss my ongoing work with Cristofaro-Gardiner, Mandini and Pires. We study symplectic embeddings of four-dimensional ellipsoids into toric symplectic four-manifolds. Embedded contact homology capacities provide complete information about such embeddings. The embedding capacity function admits infinite staircases in several known settings (due to McDuff – Schlenck; Frenkel – Müller; and Cristofaro-Gardiner – Kleinman). We find three more, and conjecture that these are the only infinite staircases among toric surfaces. (Received September 23, 2017)