1139-13-341 **Eloísa Grifo*** (`eloisa.grifo@virginia.edu`), eloisa.grifo@virginia.edu. *Applying homological algebra to a problem on symbolic powers.* Preliminary report.

The containment problem for symbolic and ordinary powers of ideals asks when the containment $I^{(a)} \subseteq I^b$ holds. Under nice enough conditions, we can replace this question by a purely homological one: whether or not a certain map between Ext modules vanishes. In this talk, we will answer this question for some classes of ideals I, and along the way compute free resolutions for all powers of I. (Received February 15, 2018)