Janet Striuli*, Corey Brooke, Molly Hoch, Sabrina Lato and Bryan Wang. The index of stability: a project for undergraduate students.

Given an ideal I in a Noetherian ring, Brodmann proved that there exists an integer k such that $Ass(I^k) = Ass(I^{k+n})$ for all $n \ge 0$. The index k is called index of stability. In this talk we will survey what is known about the value of k and we will present the project that was carried out in the Fairfield REU 2016. (Received September 23, 2018)