Rebekah J. Aduddell* (rebekah.aduddell@mavs.uta.edu) and David A. Jorgensen (djorgens@uta.edu). The Natural Middle of a Complete Resolution. Preliminary report.

Given a complex over a noetherian, local ring $R$, we present two new invariants called the critical and co-critical degrees. This allows us to define the natural middle of a complex as the portion containing the simplest syzygy modules. Additionally, we have a few preliminary results. (Received September 17, 2019)