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**John M Zhang\*** (jmzhang@math.ucla.edu). *Affine spaces over derivators*. Preliminary report.

Derivators can be thought of as an enhancement of triangulated categories with functorial cone construction. They also generalize concepts such as homotopy categories of model categories or derived categories of abelian categories. In this talk, we introduce a notion of  $\mathbb{A}^1$  associated to a derivator and more generally, affine space  $\mathbb{A}^n$  of a derivator. We will note some good properties about this  $\mathbb{A}^1$  construction that have been persuasive in indicating that this plays a role akin to  $\mathbb{A}^1$  in algebraic geometry. (Received January 31, 2018)