

1135-VU-2728      **Alyson Bittner\*** (alysonbi@buffalo.edu). *Spaces With Complexity One.*

The inductive construction of a *CW*-complex builds spaces out of spheres. This process can be generalized to build *A*-cellular spaces out of some fixed space *A*. Given such a construction, we can ask if it is the most efficient construction in the sense that it requires the least ordinal number of steps to build the space out of copies of *A*, called the *A*-complexity of the space. With certain assumptions on *A*, every space has *A*-complexity less than or equal to one. We will discuss the properties and significance of such spaces *A*. (Received September 26, 2017)