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**Haotian Wu\*** ([mathematics@uwec.edu](mailto:mathematics@uwec.edu)), Hibbard Humanities Hall 508, 124 Garfield Avenue, Eau Claire, WI 54701. *The moduli space of non-nilpotent complex 5-dimensional associative algebras*. Preliminary report.

We have been studying the moduli space of non-nilpotent complex associative five dimensional algebras. There are 285 strata in the space including some strata which are parametrized by either  $\mathbb{P}$  or the projective orbifold  $\mathbb{P}/\Sigma_2$ . We discuss the deformation theory of these algebras. (Received September 25, 2018)