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Darlayne Addabbo* (daddabbo@nd.edu) and **Katrina Barron** (kbarron@nd.edu). *Higher level Zhu algebras for the Heisenberg vertex operator algebra and applications.*

We present results on the structure of the level $n \geq 2$ Zhu algebras for the Heisenberg vertex operator algebra and discuss techniques used in determining the structure of these algebras. We give an example clarifying the necessity of certain conditions in defining higher level Zhu algebras, and discuss applications of these results. (Received September 16, 2019)