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Joanna Meinel and **Van C. Nguyen*** (nguyen@hood.edu), Department of Mathematics, Hood College, Frederick, MD 21701, and **Bregje Pauwels**, **Maria Julia Redondo** and **Andrea Solotar**. *Gerstenhaber structure of a class of special biserial algebras.*

For any integer $N \geq 1$, we consider a class of self-injective special biserial algebras A_N given by quiver and relations over a field k . We study the Gerstenhaber structure of its Hochschild cohomology ring $HH^*(A_N)$. This Hochschild cohomology ring is a finitely generated k -algebra, due to the results by Snashall and Taillefer. We employ their cohomology computations and Suárez-Álvarez's approach to compute all Gerstenhaber brackets of $HH^*(A_N)$. Furthermore, we study the Lie algebra structure of the degree-1 cohomology $HH^1(A_N)$ as embedded into a direct sum of Virasoro algebras and provide a decomposition of $HH^n(A_N)$ as a module over $HH^1(A_N)$. This joint project was started at the WINART workshop at BIRS in April 2016. (Received September 05, 2017)