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Irving Dai, Jennifer Hom, Matthew Stoffregen and Linh Truong*, School of Mathematics, Institute for Advanced Study, 1 Einstein Drive, Princeton, NJ 08540. *An infinite rank summand of the homology cobordism group.*

We prove that the homology cobordism group of integer homology three-spheres contains an infinite rank summand. The proof uses an algebraic modification of the involutive Heegaard Floer package of Hendricks-Manolescu and Hendricks-Manolescu-Zemke. This is inspired by Hom's techniques in the setting of knot concordance. This is joint work with Irving Dai, Jen Hom, and Matt Stoffregen. (Received July 14, 2019)