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Asaf Horev, Inbar Klang and Foling Zou* (zoufoling@uchicago.edu), Department of Mathematics, 5734 S University Ave, Chicago, IL 60615. *Equivariant factorization homology of Thom spectra*. Preliminary report.

Let G be a finite group and V be a finite dimensional G -representation. The equivariant factorization homology has been defined and studied by the second author. We show that when coefficient algebra A is the Thom spectrum of an E_V -map, the factorization homology of A can be computed by a certain Thom spectrum. With nonabelian Poincaré duality, we are able to simplify the result in some cases. In particular, we compute $\mathrm{THR}(\mathbb{H}\mathbb{F}_2)$, $\mathrm{THR}(\mathbb{H}\mathbb{Z}_{(2)})$, $\mathrm{THH}_{C_2}(\mathbb{H}\mathbb{F}_2)$. Our approach generalizes the first author's work in the nonequivariant case. (Received August 11, 2019)