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Adam Salminen* (as341@evansville.edu), 1800 Lincoln Avenue, Evansville, IN 47714, and
Greg Oman. *On modules whose proper homomorphic images are of smaller cardinality.*

Let R be a commutative ring with identity, and let M be a unitary module over R . We call M H-smaller (HS for short) iff M is infinite and $|M/N| < |M|$ for every nonzero submodule N of M . We give a characterization of HS modules, and answer an open question on Jónsson modules. (Received September 16, 2010)