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Maryna Yaskina* (yaskinam@math.missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. *Non-intersection bodies all of whose central sections are intersection bodies.*

We construct symmetric convex bodies that are not intersection bodies, but all of their central hyperplane sections are intersection bodies. This result extends the studies by Weil in the case of zonoids and by Neyman in the case of subspaces of L_p . (Received September 13, 2005)