Corrigendum to Resolutions of homology manifolds, and the topological characterization of manifolds

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There is an error in Sect. 4 of [1]. Rather than showing that the “last obstruction” is trivial, the proof shows that it defines an invariant (the *local index*) of connected ENR homology manifolds, which satisfies $i(X) \equiv 1 \pmod{8}$, $i(U) = i(X)$ if $X \supseteq U$ is open, $i(X \times Y) = i(X)i(Y)$, and if $\dim(X) \geq 5$ or $\dim(X) = 4$ and ∂X is a manifold, then X has a resolution if and only if $i(X) = 1$. Consequently in the statements of the “characterization of manifolds” and 1.1–1.3 of [1], “homology manifold” should be replaced by “homology manifold of local index 1”. Details will appear elsewhere.

1. Quinn, F.: Resolutions of homology manifolds and the topological characterization of manifolds. Invent. Math. **72**, 267–284 (1983)