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**Charles Livingston\*** (livingst@indiana.edu) and **Se-Goo Kim** (sgkim@khu.ac.kr). *Splitting the 3-dimensional rational homology cobordism group.*

Associated to each rational homology 3-sphere there is a linking form defined on its first homology. This induces a homomorphism from the 3-dimensional rational homology cobordism group to the Witt group of non-degenerate symmetric  $\mathbb{Q}/\mathbb{Z}$ -valued bilinear forms on finite abelian groups. This Witt group splits naturally as a direct sum over the prime integers. In this talk I will discuss the failure of this splitting to be reflected in the cobordism group. (Received August 23, 2012)