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Ethan Berkove (berkovee@lafayette.edu), Department of Mathematics, Lafayette College, Easton, PA 18042, Sejal Dharia (skdharia1@yahoo.com), Department of Mathematics, San José State University, San José, CA 95192-0103, and Tim Hsu* (hsu@math.sjsu.edu), Department of Mathematics, San José State University, San José, CA 95192-0103. The l²-invariants of clean 2-complexes. Preliminary report.

A *clean 2-complex* has a graph of spaces decomposition where the vertex and edge spaces are graphs and the attaching maps are graph embeddings. We discuss algebraic, topological, and combinatorial aspects of the computation of the ℓ^2 -Betti numbers of clean 2-complexes. (Received March 03, 2009)