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David Constantine* (dconstantine@wesleyan.edu), Department of Math and Computer Science, Wesleyan University, 265 Church St, Middletown, CT 06459. *Marked length spectrum and volume rigidity for Fuchsian buildings.*

Let X_1 and X_2 be compact quotients of thick Fuchsian buildings with $CAT(-1)$ metrics. We prove that if the marked length spectra of these spaces are the same, then they have the same volume. This is joint work with Jean-François Lafont, and is one part of the proof of marked length spectrum rigidity for Fuchsian buildings presented in his talk in this session. (Received January 17, 2015)