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Jesse D. Peterson* (jesse.d.peterson@vanderbilt.edu), Mathematics Department,
Vanderbilt University, 1326 Stevenson Center, Nashville, TN 37240. *Cohomology on measure
preserving equivalence relations.*

I will review some basic notions of representations and cocycles on measure preserving equivalence relations. I will then discuss some techniques from which we can obtain structural information of a measure preserving equivalence relation from its cohomology. (Received September 21, 2010)