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Djoko Wirosoetisno. *Spectral Applications of McMullen's Hausdorff Dimension
Algorithm.* Preliminary report.

We consider singular continuous measures on the unit circle obtained as limit measures of groups generated by reflections in the hyperbolic plane. We extend McMullen's Hausdorff dimension algorithm to approximate the moments of these measures. This allows us to study the corresponding orthogonal polynomials on the unit circle and to investigate various spectral properties of the associated CMV matrices. (Received January 17, 2012)