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**Dorin Ervin Dutkay\*** (ddutkay@gmail.com), Orlando, FL 32816. *Fuglede's conjecture in dimension one.*

The Fuglede conjecture relates the harmonic analysis of Fourier bases with the geometry of tilings. Even though the Fuglede conjecture was disproved in both directions for dimensions higher than three, in dimension one, there is a lot of evidence that it might be true. We present some of these results and some of the reductions of the conjecture to integers or to finite abelian groups. (Received August 20, 2013)