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Jeremy Kastine* (jkastine@isothermal.edu). *An Introduction to G-, S-, and L-Canons*. Preliminary report.

Rhythmic tiling can be used to create canons in which any two distinct parts never overlap. As a result, the texture of such a canon is monophonic. In this talk we will demonstrate the construction of G-canons and S-canons (based on Golomb rulers and Sidon sets) in which any two distinct parts overlap exactly once but always do so in unison. As with tiling canons, these canons are monophonic. Tiling canons, G-canons, and S-canons are part of a broader class which we will call L-canons, in which any two distinct parts overlap no more than once and are in unison when they do overlap. We will demonstrate that, given any melodic motive, we can construct an L-canon based on its translations and scalings. (Received January 07, 2016)