

1056-37-717

**Firas Y Hindeleh** (hindelef@gvsu.edu), 1 Campus Dr., Allendale, MI 49401, and **Jessica R Sears\*** (searsj@mail.gvsu.edu), 4378 Pierce, Allendale, MI 49401. *The Fractal Beauty of Byzantine Music.*

The songs found in Byzantine music possess both audible and mathematical beauty. The purpose of this talk is to study one representative song from each of the eight tones in Byzantine music and demonstrate that each one exhibits a fractal relation between the Musical Instrument Digital Interface (MIDI) frequencies of successive notes for a given note interval. (Received September 16, 2009)