

Abstract Submitted  
for the MAR10 Meeting of  
The American Physical Society

**Steinberg “AUDIOMAPS” Music Appreciation-Via-Understanding: Special-Relativity + Expectations ”Quantum-Theory”:  
a Quantum-ACOUSTO/MUSICO-Dynamics (QA/MD) R. STEINBERG,  
E. SIEGEL, F=C/C-S/La Jolla — “AUDIOMAPS” music enjoyment/appreciation-  
via-understanding methodology, versus art, music-dynamics evolves, telling a story  
in (3+1)-dimensions: trails, frames, timbres, + dynamics amplitude vs. music-score  
time-series (formal-inverse power- spectrum) surprisingly closely parallels (3+1)-  
dimensional Einstein(1905) special-relativity “+” (with its enjoyment- expectations)  
a manifestation of quantum-theory expectation- values, together a music quantum-  
ACOUSTO/MUSICO-dynamics (QA/MD). Analysis via Derrida deconstruction en-  
abled Siegel- Baez “Category-Semantics” “FUZZYICS” = “CATEGORYICS ( “SON  
of ’TRIZ” ) classic Aristotle “Square-of-Opposition” (SoO) DEduction-logic, irre-  
spective of Boon-Klimontovich versus Voss- Clark[PRL(77)] music power-spectrum  
analysis sampling- time/duration controversy: part versus whole, shows that “AU-  
DIOMAPS” QA/MD reigns supreme as THE music appreciation-via- analysis tool  
for the listener in musicology!!! Connection to Deutsch-Hartmann-Levitin[This is  
Your Brain on Music,(2006)] brain/mind-barrier brain/mind-music connection is  
both subtle and compelling and immediate!!!**

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