## Subjectivity and the Research Question:

# Quantitative and Qualitative Methodologies in the Context of Artistic Research

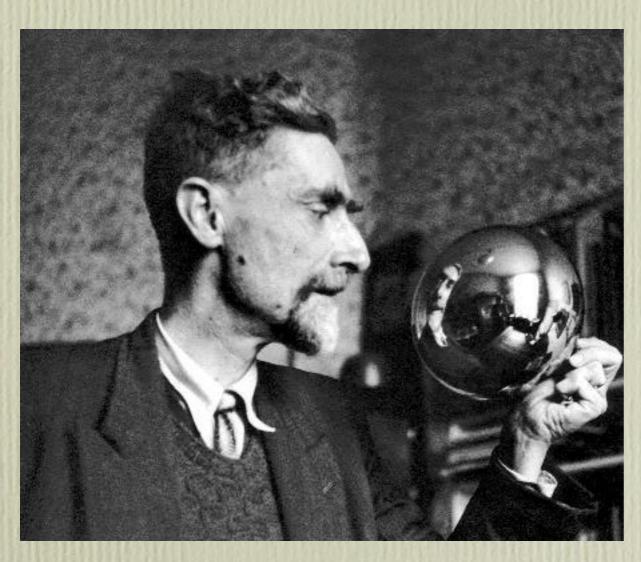
Joanna Marsden

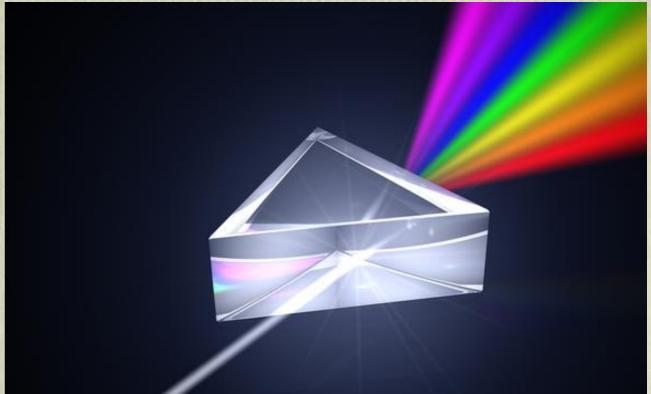
Koninklijk Conservatorium, Den Haag

#### Research

- 1. The act of searching carefully for or pursuing a specified thing or person
- 2a. Systematic investigation or inquiry aimed at contributing to knowledge of a theory, topic, etc., by careful consideration, observation, or study of a subject. In later use also: original critical or scientific investigation carried out under the auspices of an academic or other institution.

## Artistic Research: Reflection versus Refraction



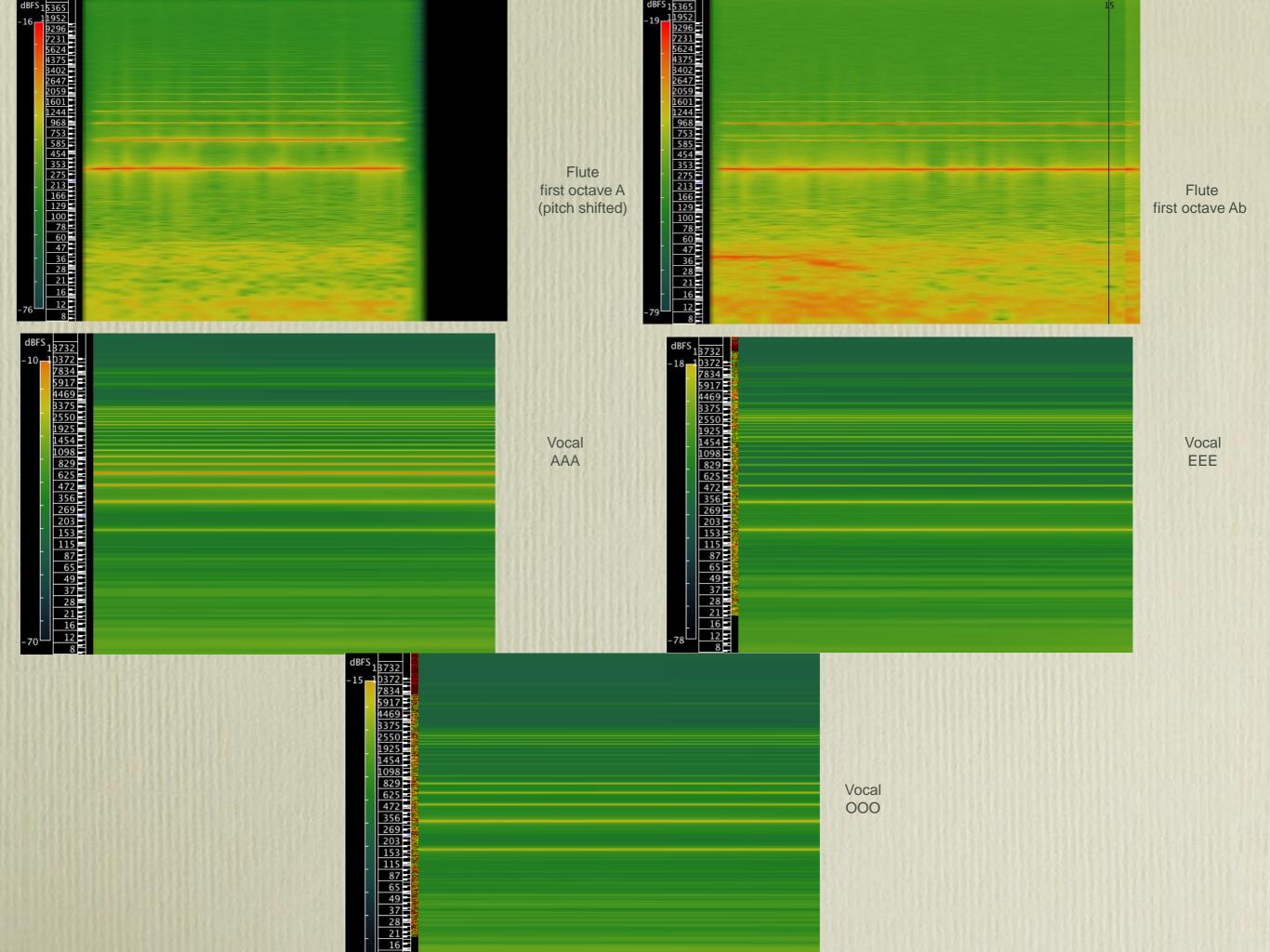


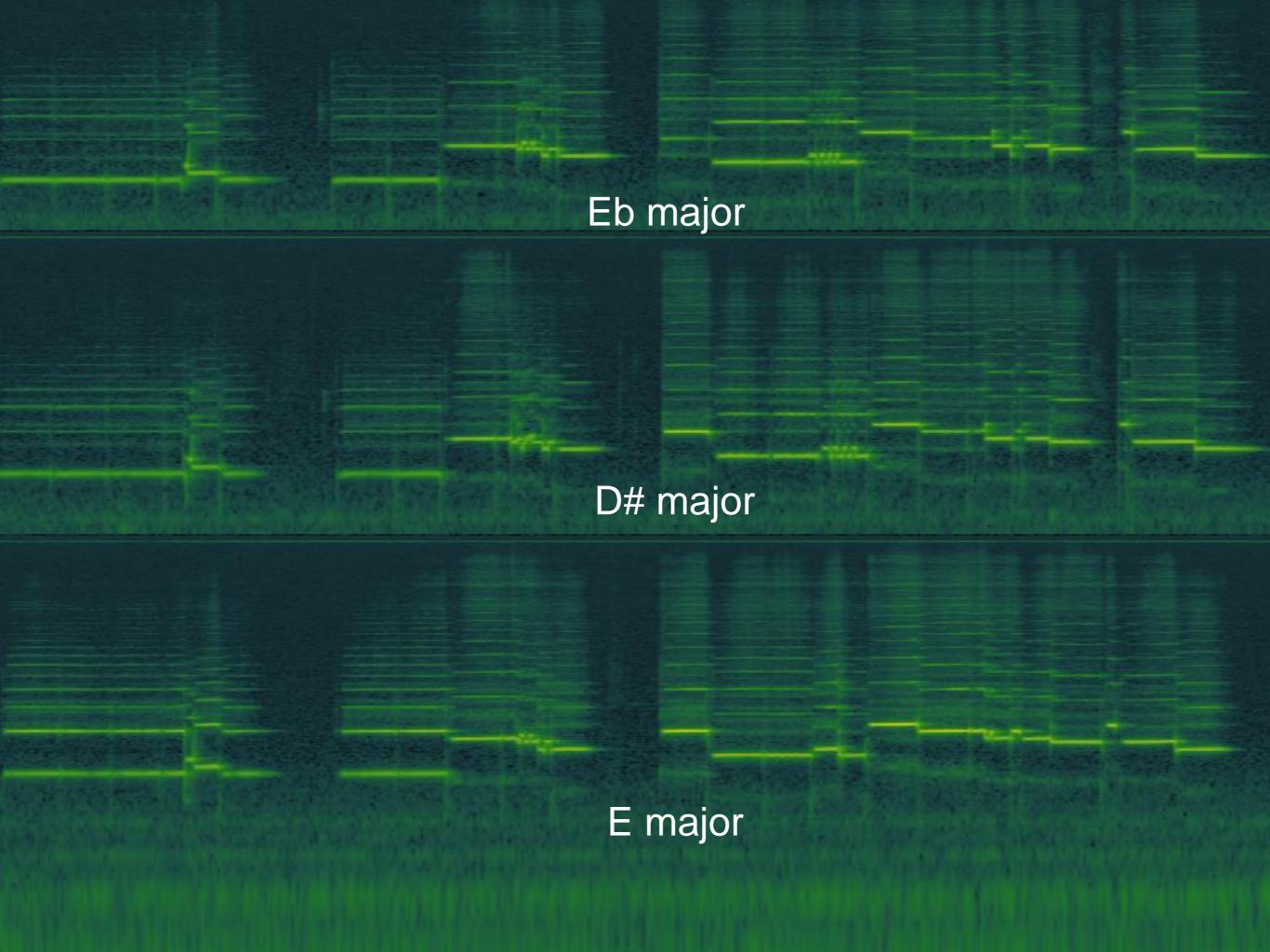
### My own Methodologies

- Historical musicology: study of primary and secondary sources by and related to Quantz
- Analysis of Quantz's Dresden and Berlin sonatas
- Instrument construction based on historical models
- Study of flute tone and timbre linked to acoustic and psychoacoustic research
- Practice-based inquiry using Sonic Visualizer, Praat, Timbre Toolbox, and Matlab Toolbox For Music Information Retrieval









#### Selected Resources

- Sonic Visualizer (Queen Mary, University of London)
- Praat (Paul Boersma and David Weeninck)
- Matlab Toolbox for Music Information Retrieval (Matlab by Brain Tuning Project, 2008)
- Timbre Toolbox (Matlab by CIRMMT, 2011)