



# **Dramaturgy**

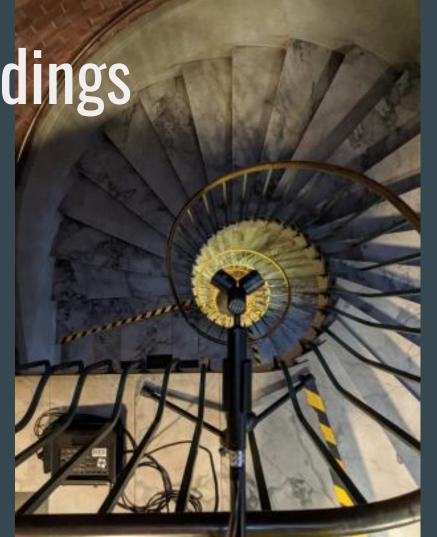
- A journey through space and time:
  - 1. Guitar in the rain
  - 2. A surreal elevator
  - 3. The train station
- Trying to find peace in a disturbing world
- Transitions threaded throughout

Ambisonics recordings

Soundfield microphone

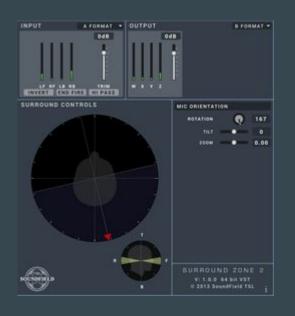
First order, A format (converted to B format)

With four microphone cardioid capsules arranged in a tetrahedron



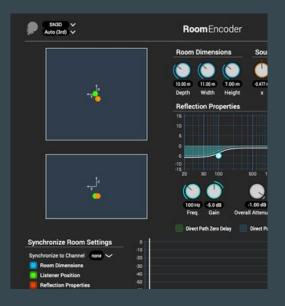
## Thomas' section

#### Scene rotation





#### RoomEncoder



# Concept

- Searching for calmness inner turmoil
- Cyclic movements
- Introspective reflections

## **Aesthetic and technical choices**

- Musical spatiality inability to localize sounds
- Piece in a piece
- Limitations forced and intentionally
- Spoken words

### **Evaluation**

- The dramaturgy is in place but the technical part could use more work
- Further exploration of the aural architecture
- Limited time due to illness stay healthy

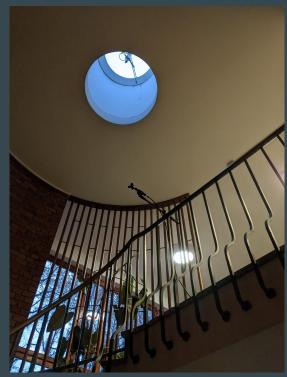


# Jackson's section

An elevator through sound!







#### Some ideas...

#### CINEMATIC USE OF SPACE

Some composers use microphone techniques and spatial processing in a manner similar to the cinematic use of camera angle, lens perspective (width), and depth of field. Accordingly, a trend toward cinematic use of space is seen in compositions that feature dramatic contrasts between sounds that are captured close in proximity and those that are distantly reverberated. Luc Ferrari's *Presque rien no.* 1 (1970) pioneered this approach. (Notably, Ferrari was also visually sophisticated and directed several important films, including his series *Les Grandes Répétitions* [The Great Rehearsals].) Another classic example of audio cinematics is *Sud* (1985) by Jean-Claude Risset. In the first example, we hear wind in the background and insects in the foreground mixed with high-pitched synthetic flutterings and resonant filter effects.

Composing Electronic Music Roads, 2015

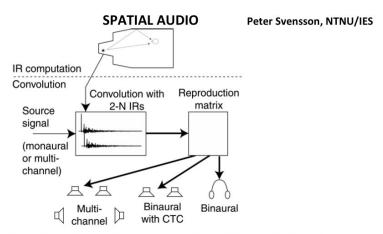
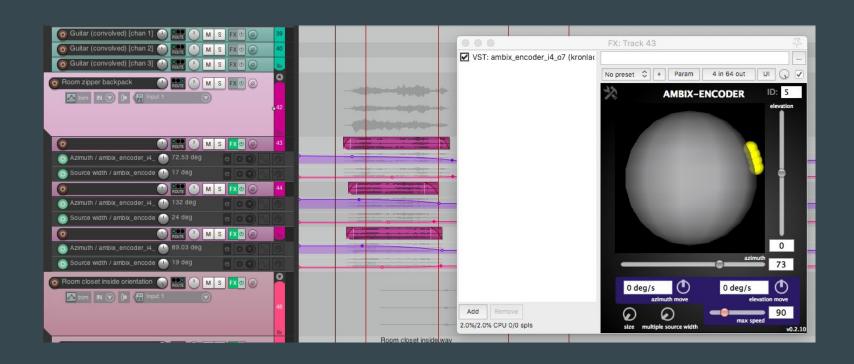


Figure 7 Illustration of the processing involved in auralization of a an environment, such as a conert hall. A so-called impulse response (IR) is computed to contain the spatial information about the acoustic information, encoded into some spatial audio signal format. A recorded "dry" signal is then filtered with this impulse response.

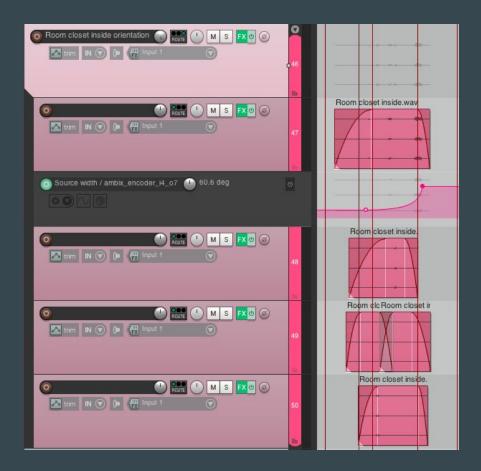
Lecture notes Svensson, 2020

# Opening a backpack



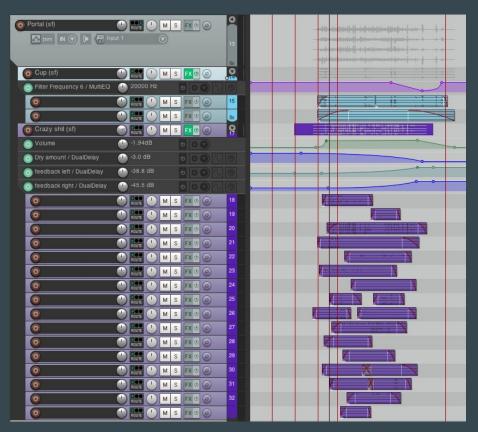
### Inside a dresser



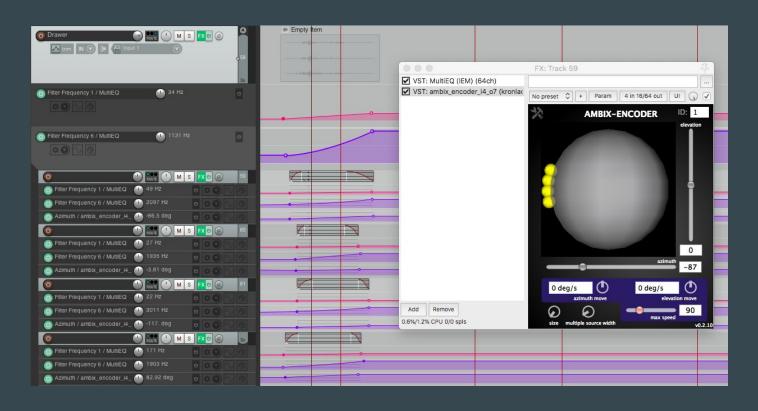


## Some wild drum sticks

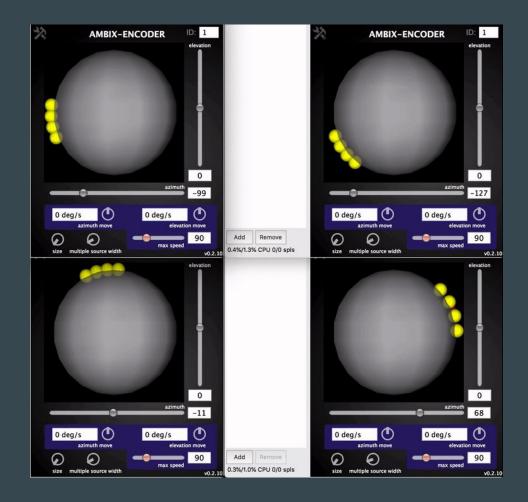




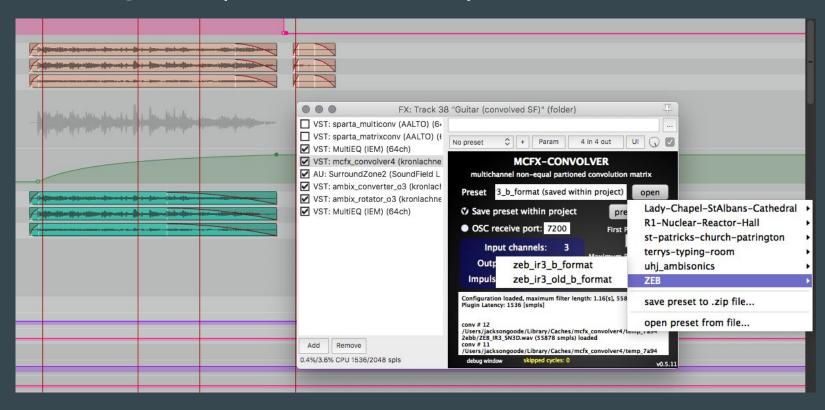
## Opening a drawer



## Some nice rotations

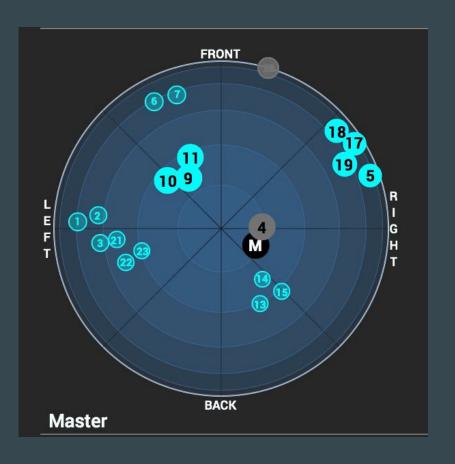


# Thomas's guitar (with convolution)

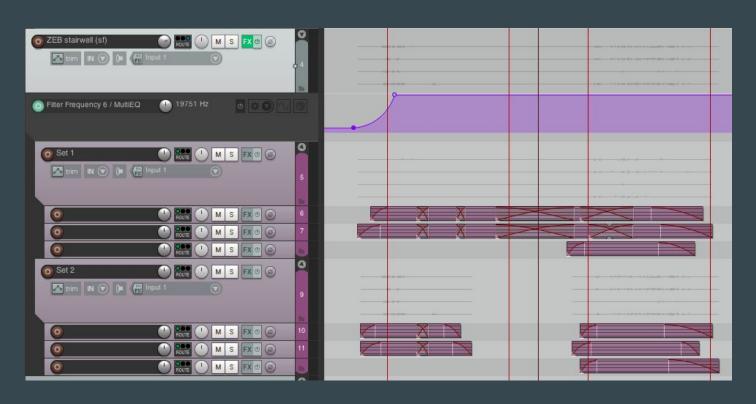


# Rotating a plastic bag

Looks cool!



# **Recording in ZEB**



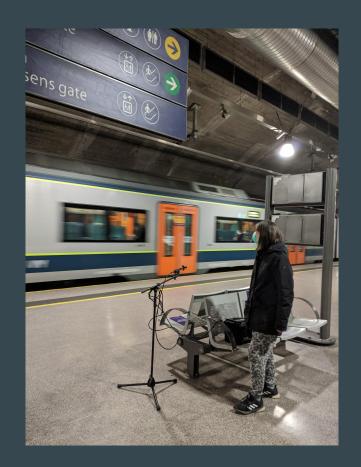
#### **Evaluation**

#### In reflection:

- Impossible spaces, and disorienting transitions
- Some spatial manipulations: cool in theory, boring in practice

#### In reality....

- Some plugins are frustrating (looking at you Sparta!)
- I need a newer laptop
- Shortcuts are your friend (and worth setting up)
  - Much of this workflow changed choices both from an artistic and technical project

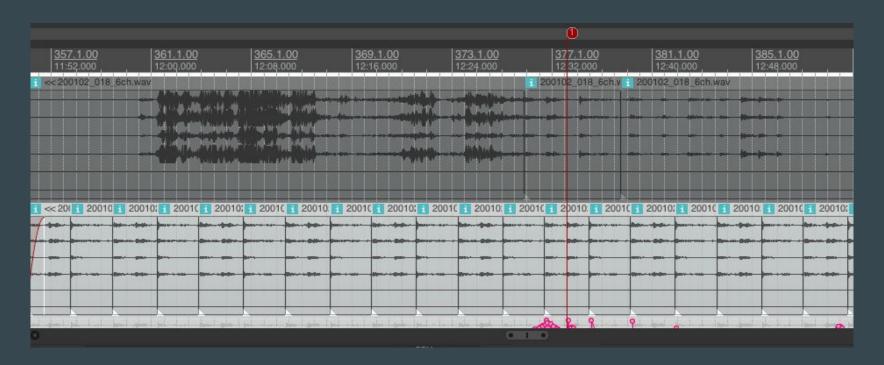


"... we can consider the following tactics when composing immersive sound-fields: an awareness of lateral reflections and late reverberation (from room acoustics), an avoidance of directionally emphasised variations in spectral content (from perception), an understanding of the space as both listener and composer, and if we wish to surround the listener with sources, the number should be significant so that our attention cannot fall on any one direction for any length of time. "(Barrett, forthcoming, p.10)

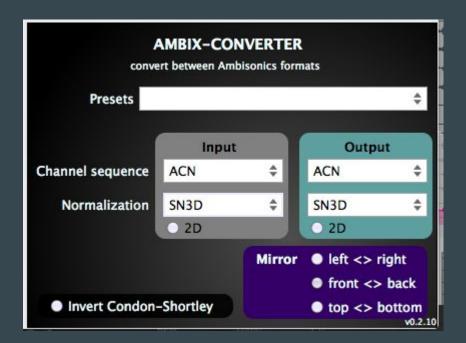


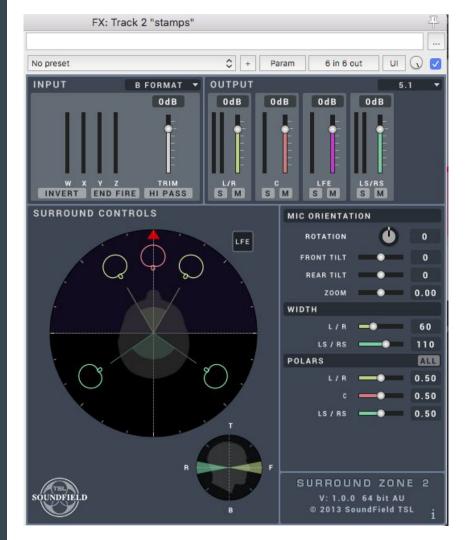


- 1. All of the recordings are from Nationaltheatret train station.
- 2. Trample sounds forms a slow beat (action sounds).
- 3. Reverberation from acoustic sculpture

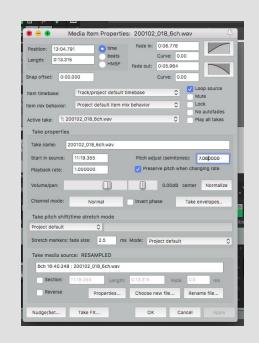


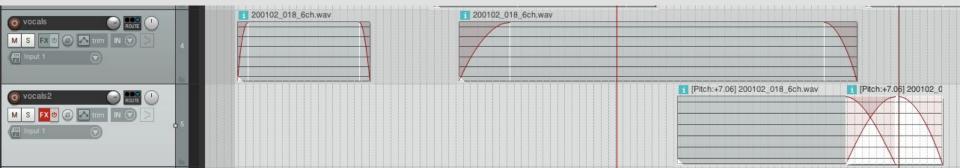




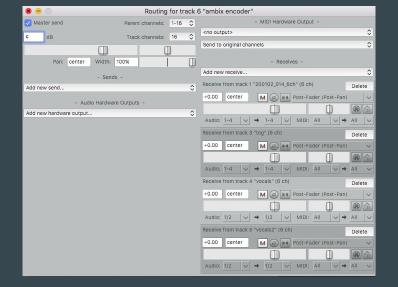


# Vocal recordings from the Acoustic sculpture



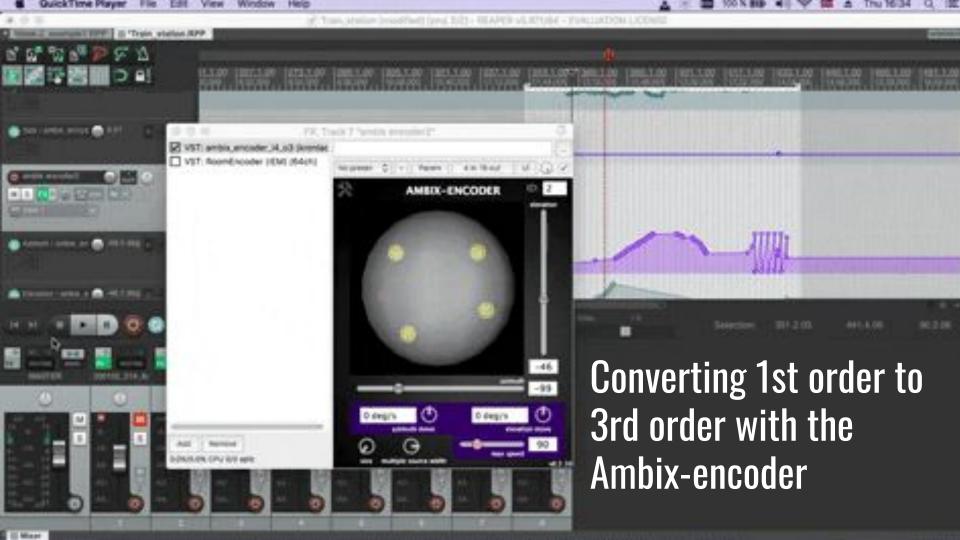


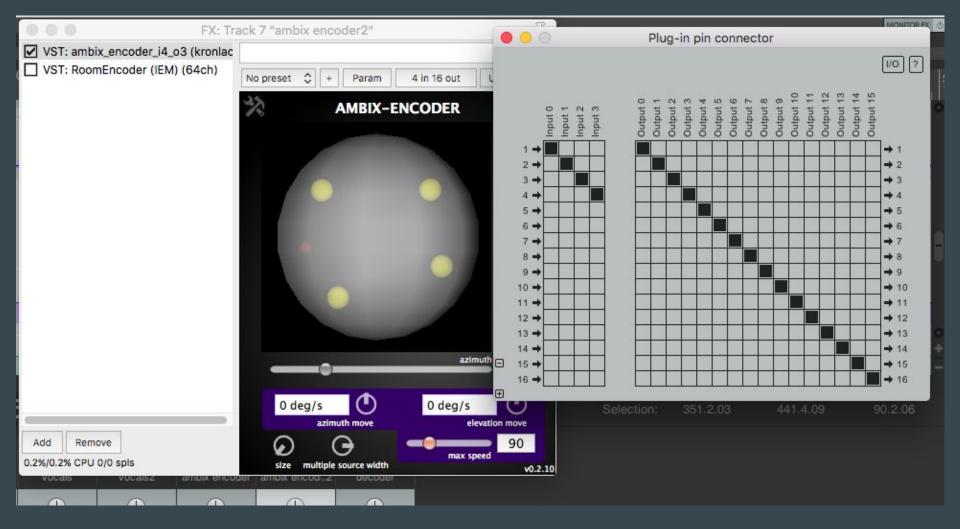












#### **Evaluation**

- If more time, more processing of sound, e.g. EQ, compressor, more effects, etc.
- A lot of background noise in the acoustic sculpture from the escalators down to the train platform. Adds a "disturbing" background layer to the whole piece
- Could have explored hybrid recording techniques during ambisonics recording section, e.g. the use of mono microphones as explained in Barret "Spatial Music Composition" (Barrett, forthoming, p. 7)
- Many different plugins and parameters to keep track of easy to do mistakes when you're supposed to learn it in only two weeks with very little hands-on time

# Reflections on the project in whole

- Corona restriction: limited access to portal
- Difficulties due to sickness in group
- Different kind of workflow compared to ordinary music production
- Plugins that are specific for ambisonics
- Production techniques have to be altered to work with multi-channel
- Routing is essential
- Satisfied with the final result regarding all the struggle :D

#### References:

- Barrett, N. (forthcoming): "Spatial Music Composition", in Paterson, J. & Lee, H. (Eds.), 3D Audio, Routledge
- Blesser, Barry. (2008). Aural architecture: The missing link.. The Journal of the Acoustical Society of America. 124. 2525. 10.1121/1.4782966.
- Svensson, Peter. (2020). Lecture notes.