

# Faculty Technology & Bionics

## Audio lab

### The lab

The lab was founded by Prof. Gehnen in 2016 and moved to its current location in room 06 01 018 in 2018 after acquiring the acoustics chamber. We would like to thank Faculty of Society and Economics for generously transferring the chamber to Technology and Bionics.

#### Intended uses include:

- Development of new modules for a modular synthesizer
- Research on new interactions between a player and instrument
- Develop new hybrid instruments
- Recording of instruments or vocals (up to small bands)
- Recording of voicing (e.g. podcasts)
- Singing rehearsal
- Acoustic experiments
- Calibration of sound tools



Fig. 1: Acoustics chamber and workstation

### Equipment

The lab contains the following equipment:

- Acoustics chamber (see Fig. 1), sound-proof, size 3m x 2.4m
- Audio Workstation with software (Cubase/Reaper/Audacity)
- Audio interface (Focusrite 18i20)
- Modular Synthesizer (Doepfer A-100)
- Condenser microphone (Rode NT1, see Fig. 3)
- Tube condenser microphone (Mangabay Monkey Banana)
- Small diaphragm condenser microphone (Audio-Technica AT 2031)
- Dynamic microphone (Shure SM57, see Fig. 3 background)
- Headphones (Beyerdynamic DT770 M and DT770 Pro)
- Monitor speakers (Yamaha HS5)
- Keyboard (Miditech i2-Control 61 Pro)
- DAW Remote (Behringer X-Touch One USB)
- Mixer (Behringer Xenyx QX1622 USB)
- 4\*4 MIDI Interface
- Accessories (cables, stands, chairs, ...)

Instruments are not part of the lab. **University Music** is providing access to musical instruments.



Fig. 2: Microphones and headset

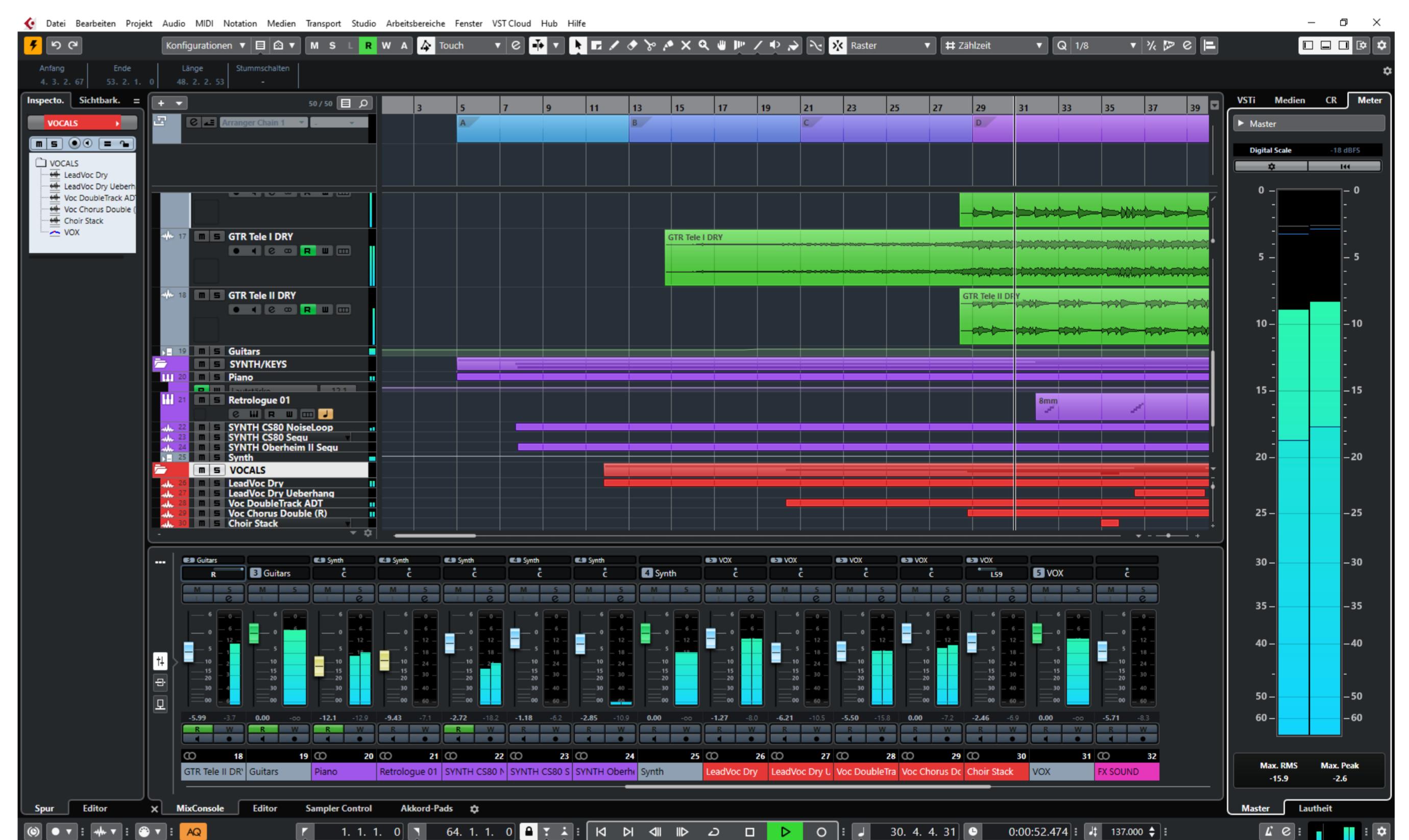


Fig. 2: Digital Audio Workstation software

### Contact

Please contact us, if you are interested in using the lab.

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