

tkm-hauptseminar – winter 2018/19

Physics of Music

probing into the depth of sound

history – technology – mathematical modeling

Fundamentals: from Pythagorean harmonics to well-tempered scales
about hearing and singing

Reproduction: from shellac to MP3
about theremins, drum machines, and synthesizing music

Vibrations: singularities on picked and bowed strings
can you hear the shape of a drum?
amplification and locking in resonance cavities
from the singing saw to the modern violin

Compressible Flows: from sound waves to music
from pipes to trumpets and clarinets

a thing *you* always wanted to find out about *your* instrument...

Contact us as soon as possible to arrange your contribution.

Wed 5pm

ITP R211

Kroy, Vollmer