

Zum 50. Geburtstag der Colette-Serie:

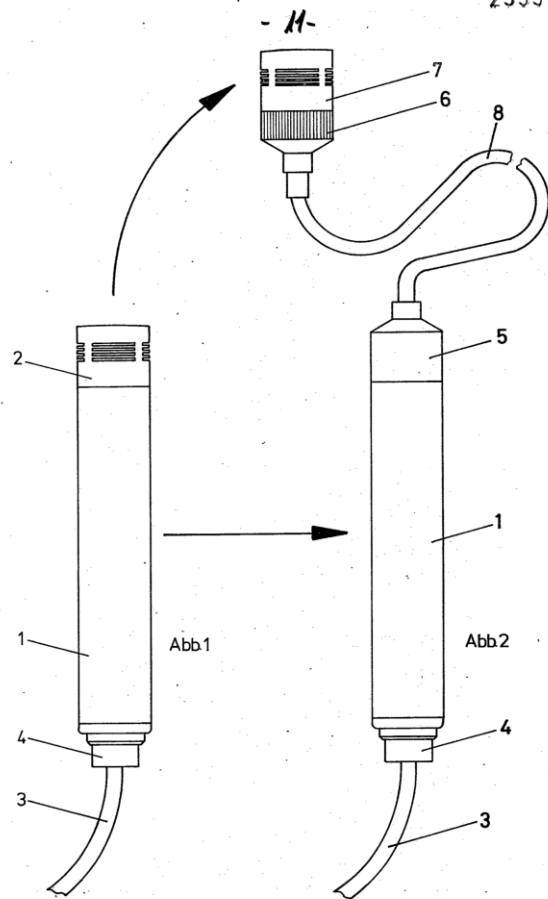
Die Richtwirkung der MK-Kapseln + Ein digitales Colette-Mikrofon

Helmut Wittek
Schoeps Mikrofone

Helmut Wittek, 24.05.2024



2355778



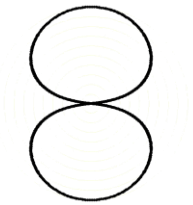
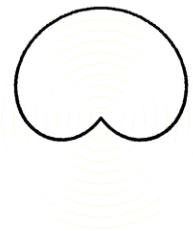
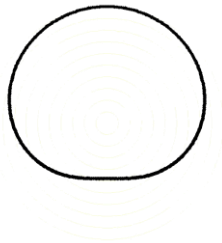
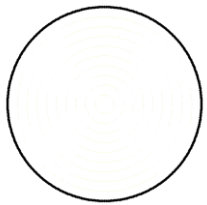
509822/0352

HO4R 1-04

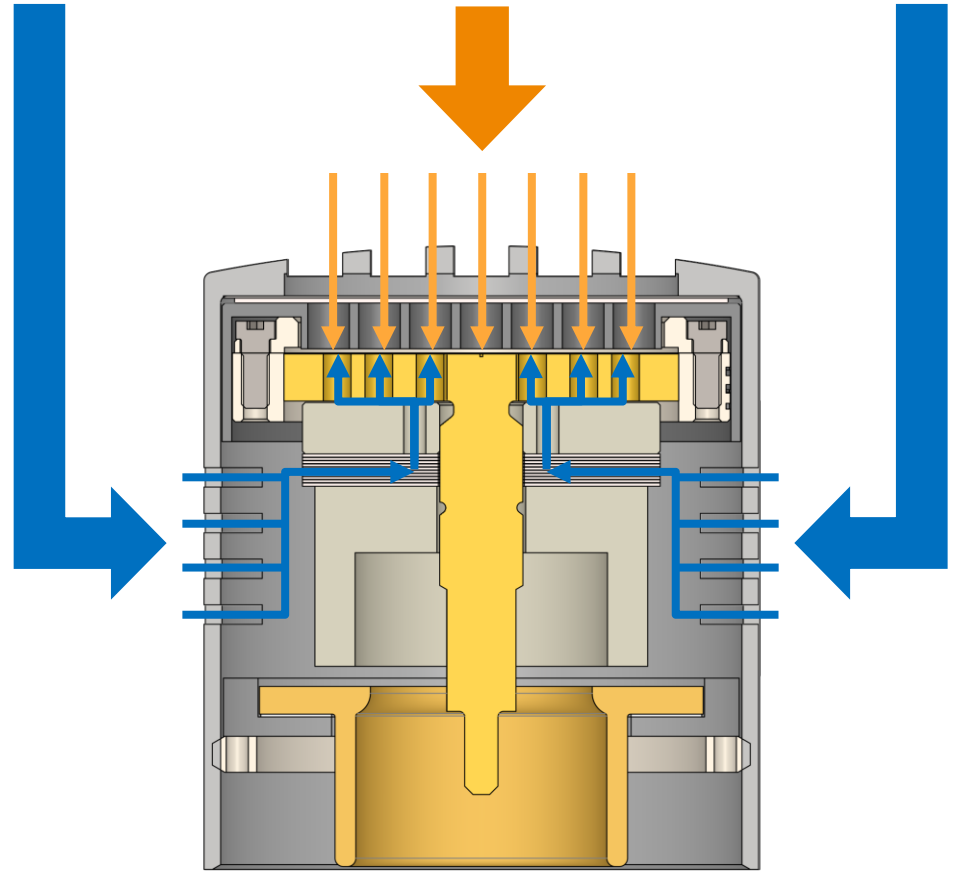
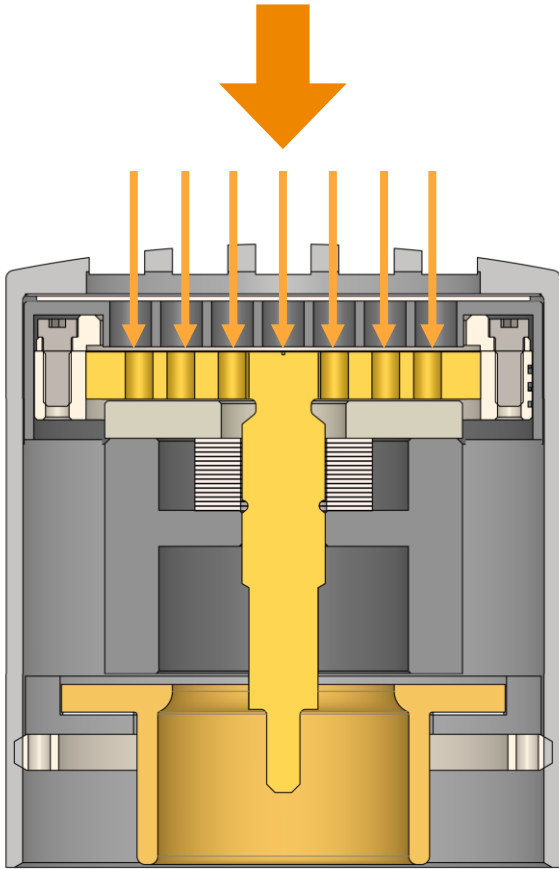
AT: 08.11.1973

OT: 28.05.1975





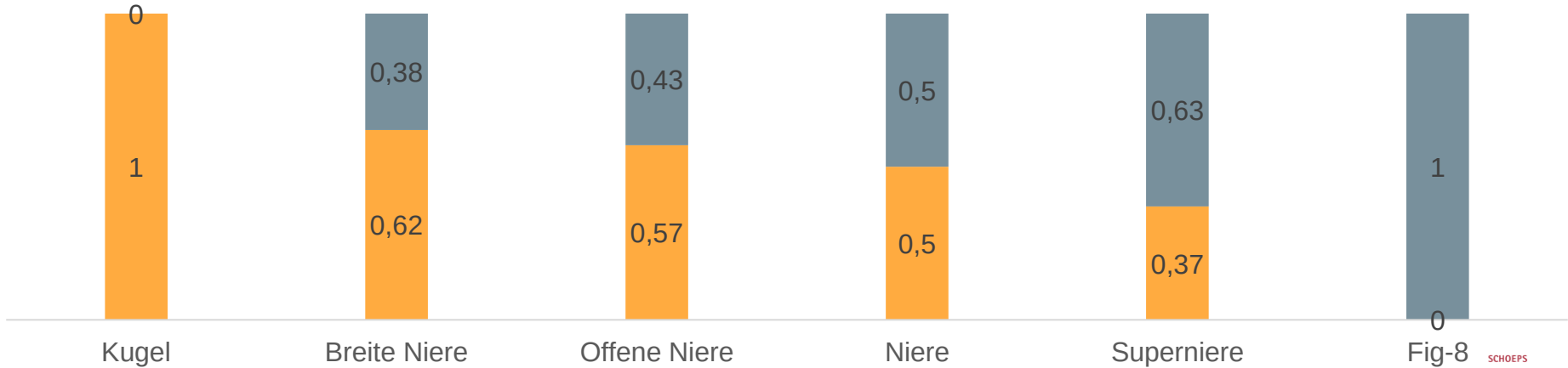


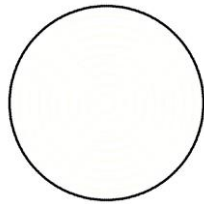






■ Kugelanteil ■ Fig-8 Anteil





Kugel

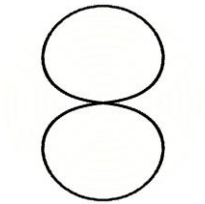


Fig-8



Nein

Ja

Nein

Nein

Richtwirkung

Gute Basswiedergabe

Nahheitseffekt

Popp/Wind- und
Körperschallempfindlich

Ja

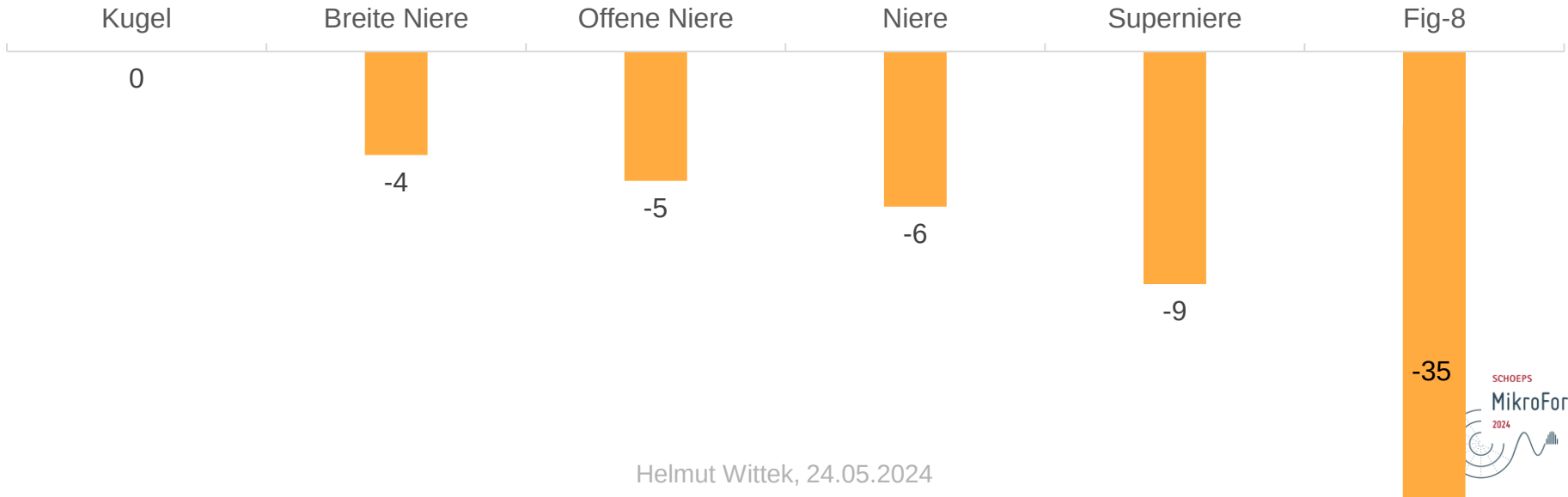
Nein

Ja

Ja

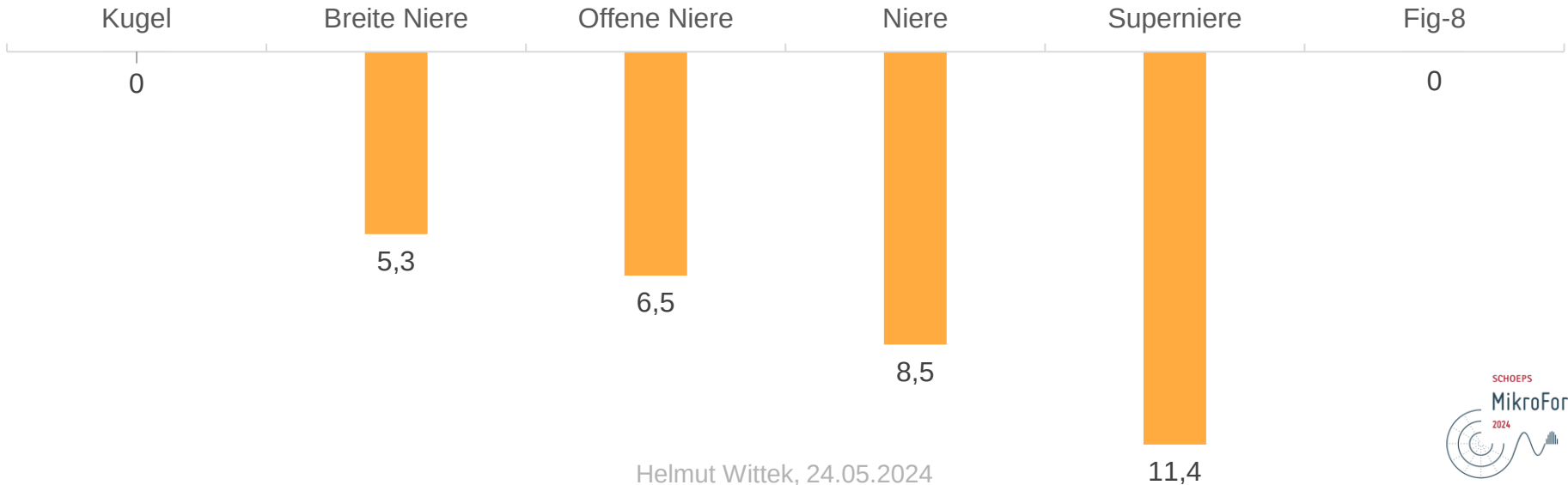


■ Pegel bei 90°



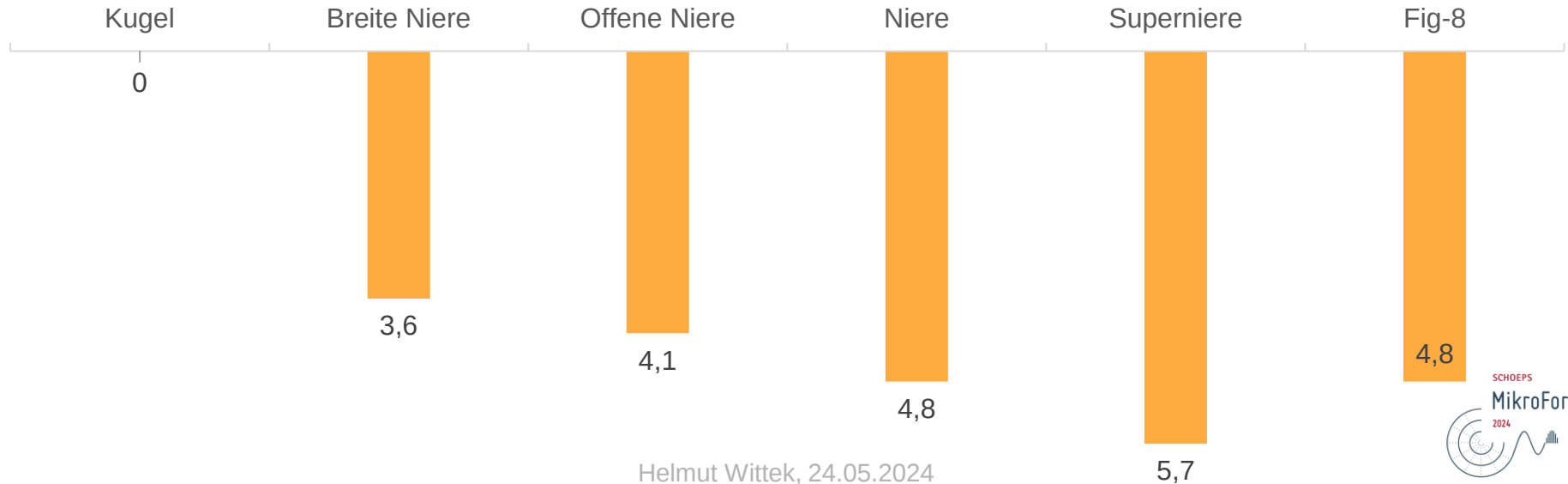


■ Pegelunterschied vordere/hintere Hemisphäre





■ Diffusfelddämpfung





Alle
Mikrofone

Helmut Wittek, 24.05.2024



MK 8

MK 41

MK 4

MK 22

MK 2

MK 21

MiniCMIT



Microphone polar patterns



Microphone and room



Stereo arrays, music



Stereo arrays, ambience



Stereo: Diffuse field correlation



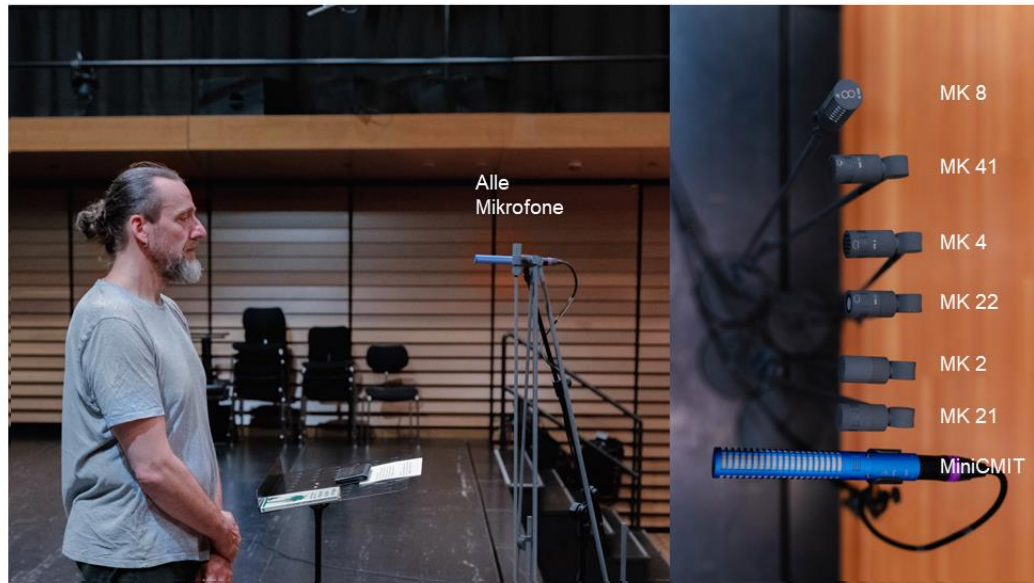
Impressum

Comparison of polar patterns

These simultaneous recordings of 7 microphones illustrate the role of the microphone's directional characteristics for the sound color and the direct/diffuse ratio.

Recorded at the Wolfgang-Rihm-Forum of the university of music, Karlsruhe, Germany

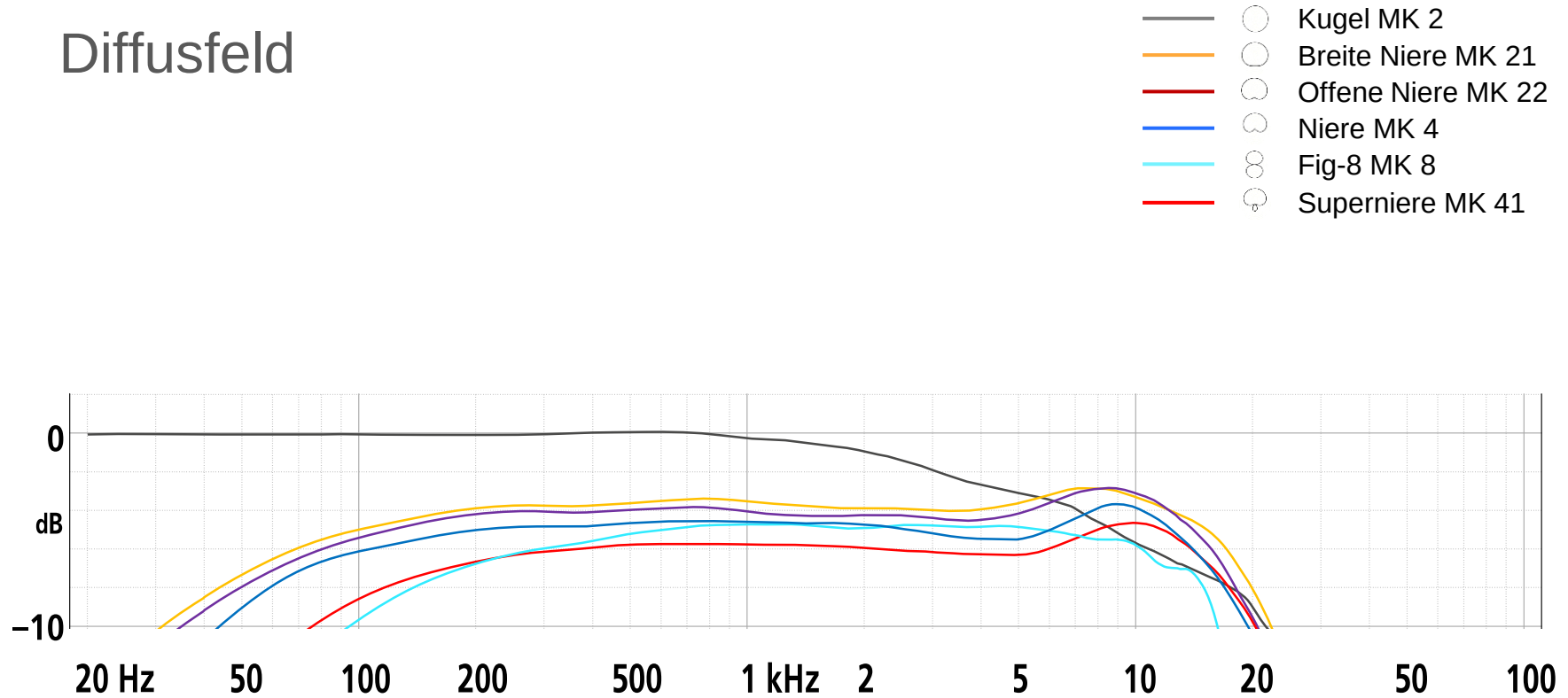
Speaker: Friedemann Röhlig



Play/Stop

Helmut Wittek, 24.05.2024

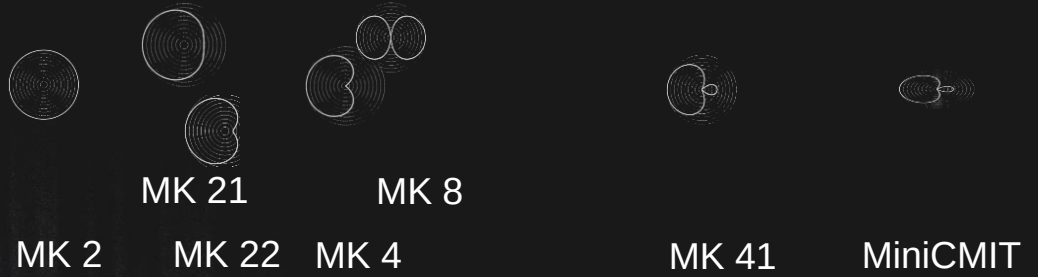
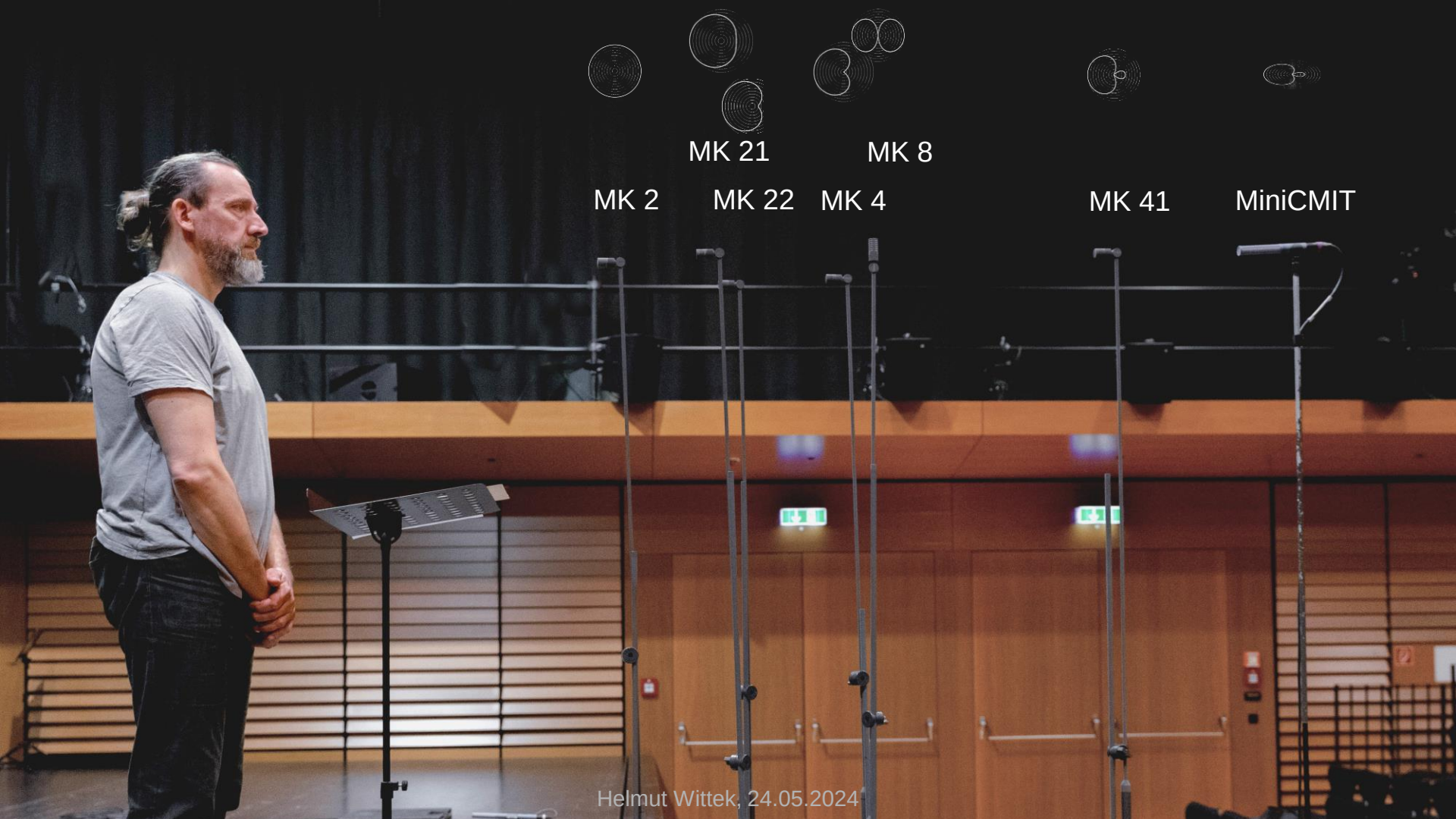
Diffusfeld





■ Distanzfaktor





hauptmikrofon.de

Sample Player



Microphone polar patterns



Microphone and room



Stereo arrays, music



Stereo arrays, ambience



Stereo: Diffuse field correlation



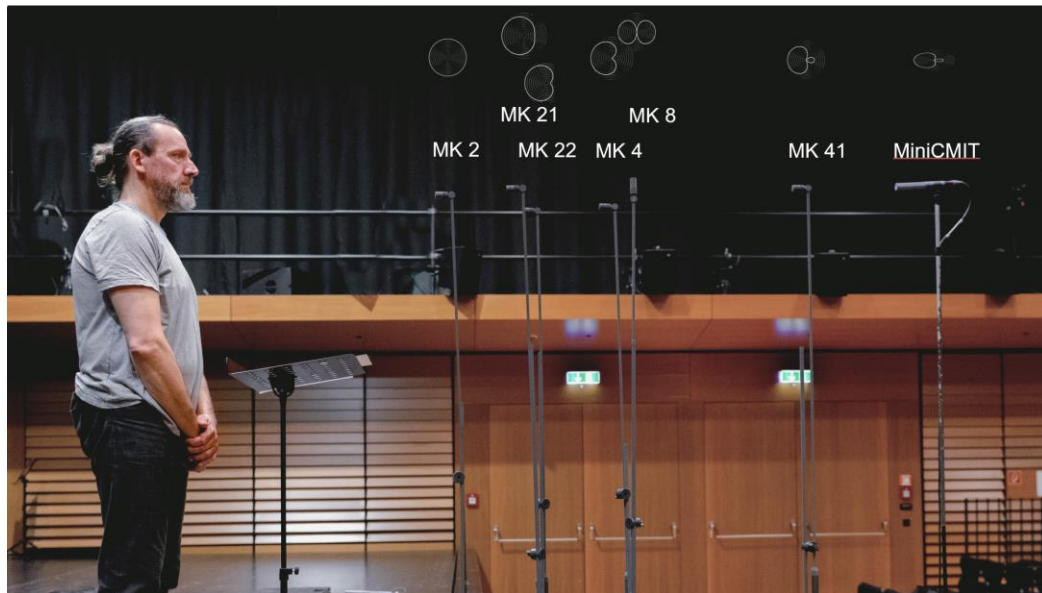
Impressum

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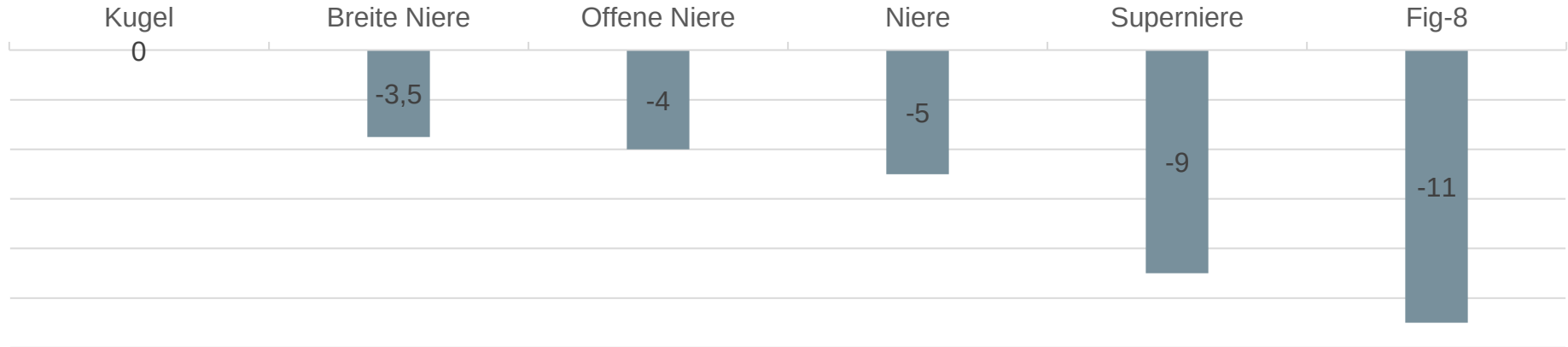


Play/Stop

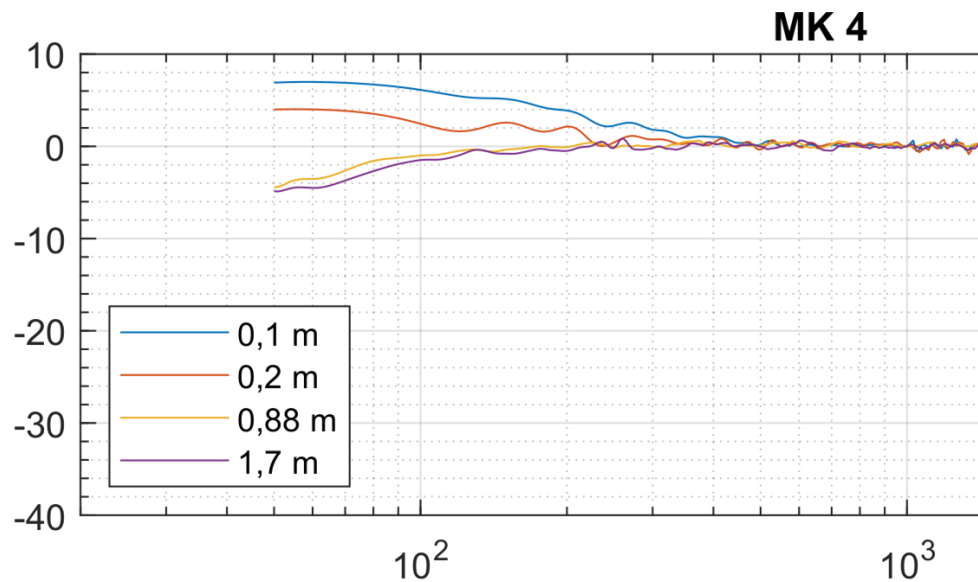
Helmut Wittek, 24.05.2024



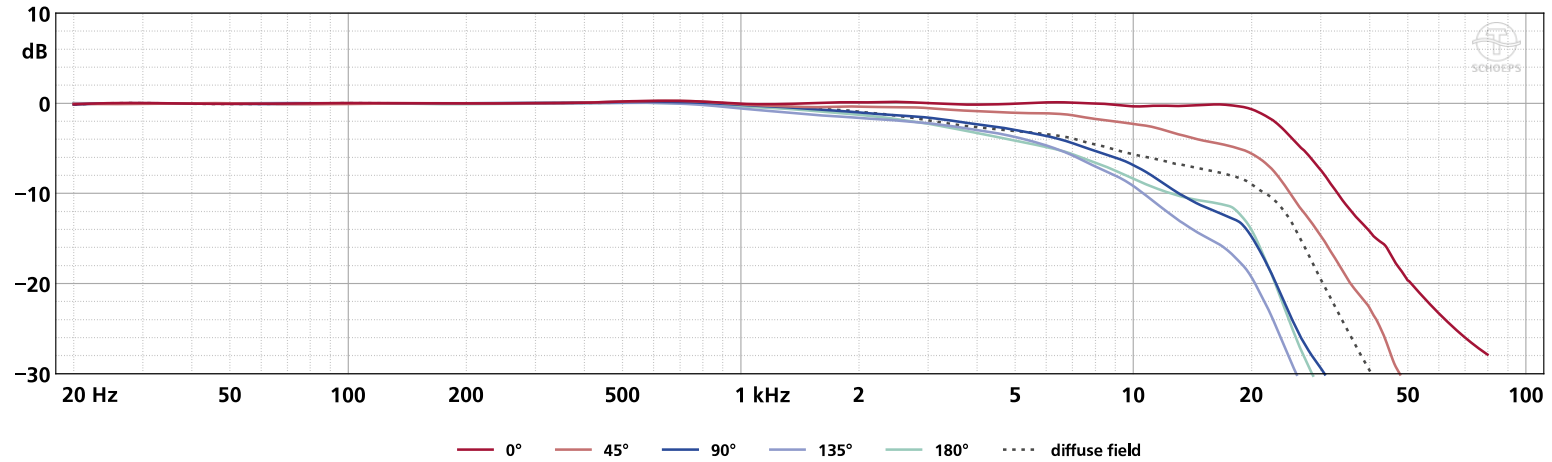
■ Basspegel (40 Hz)



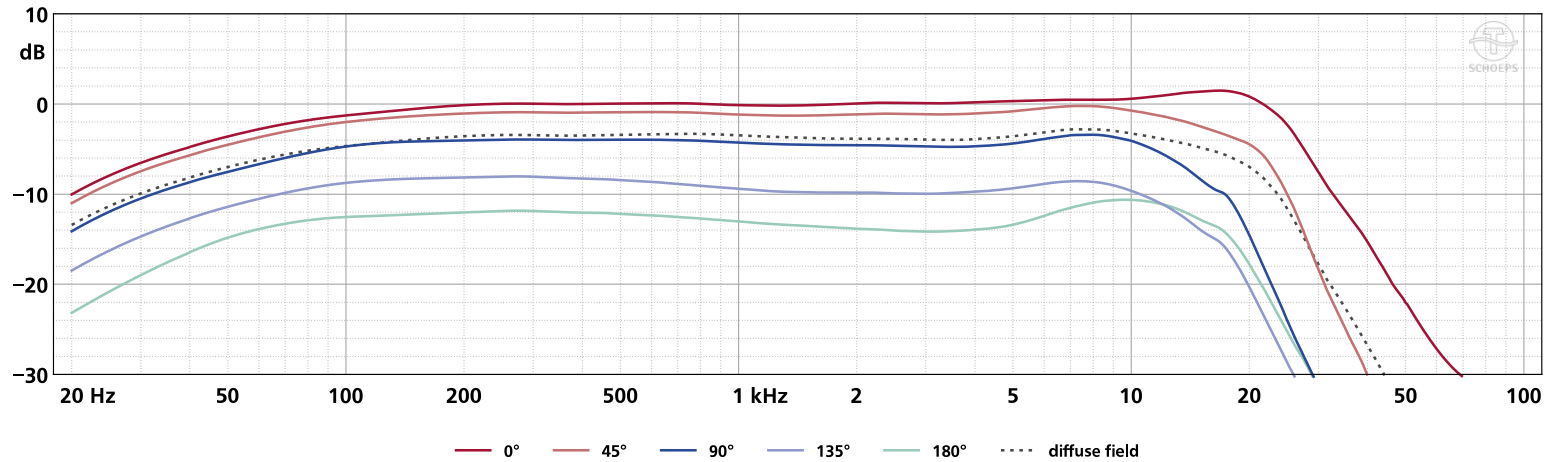
Nahheitseffekt



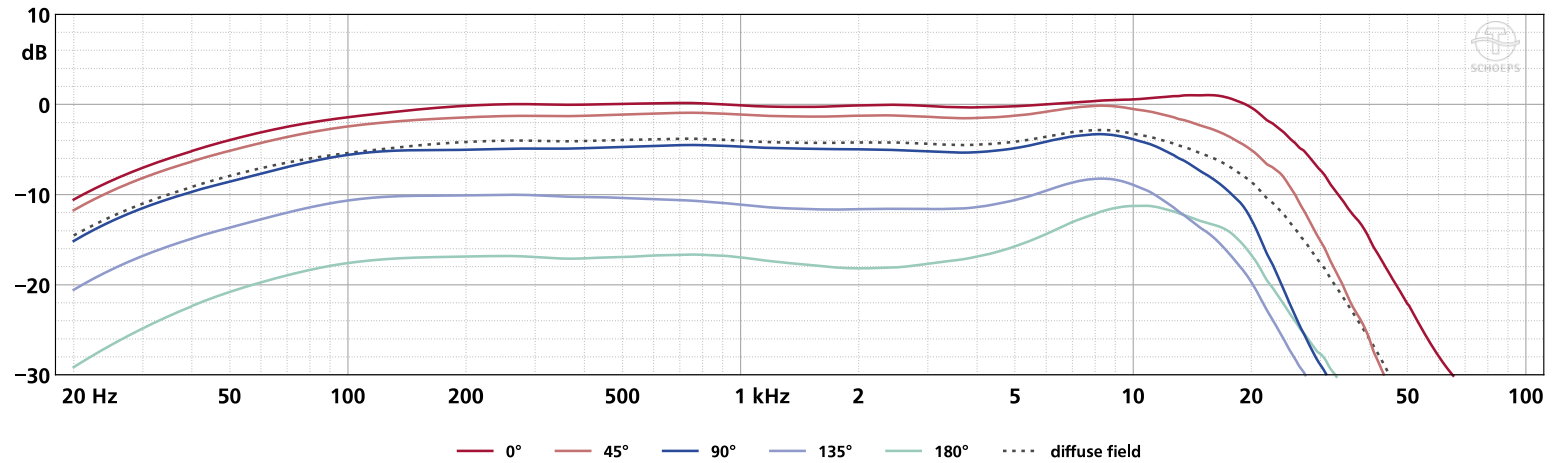
MK 2



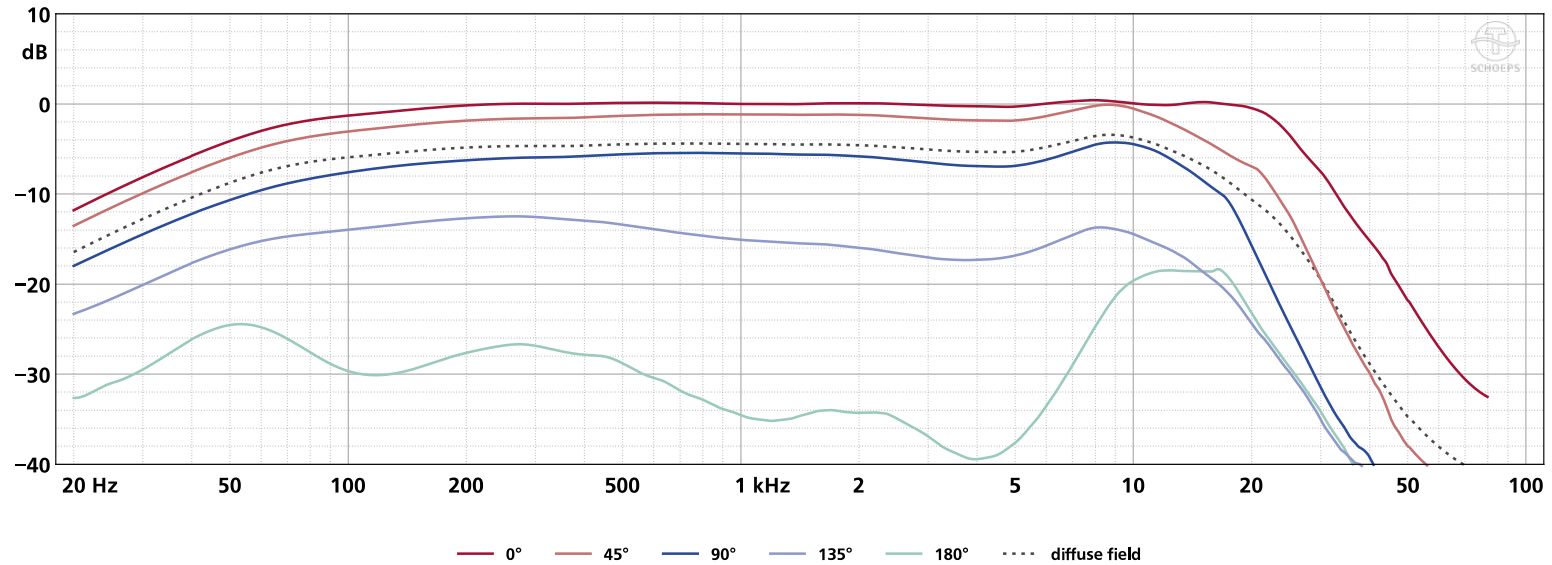
MK 21



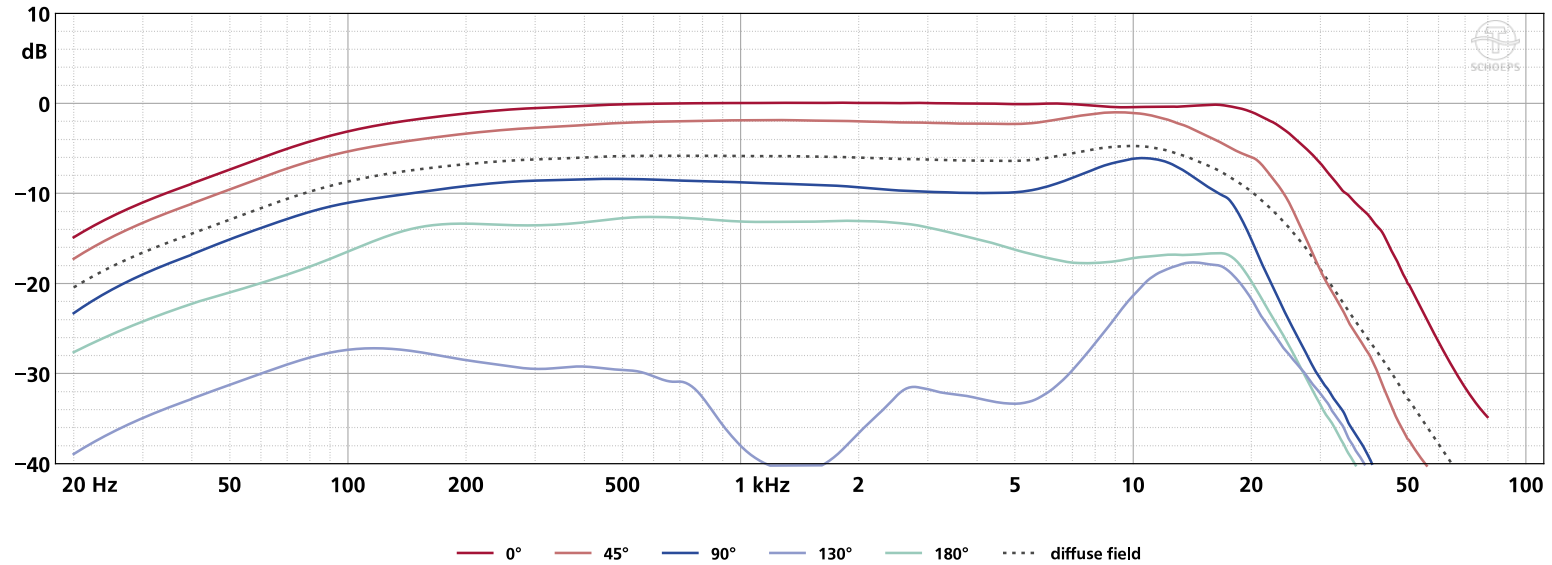
MK 22



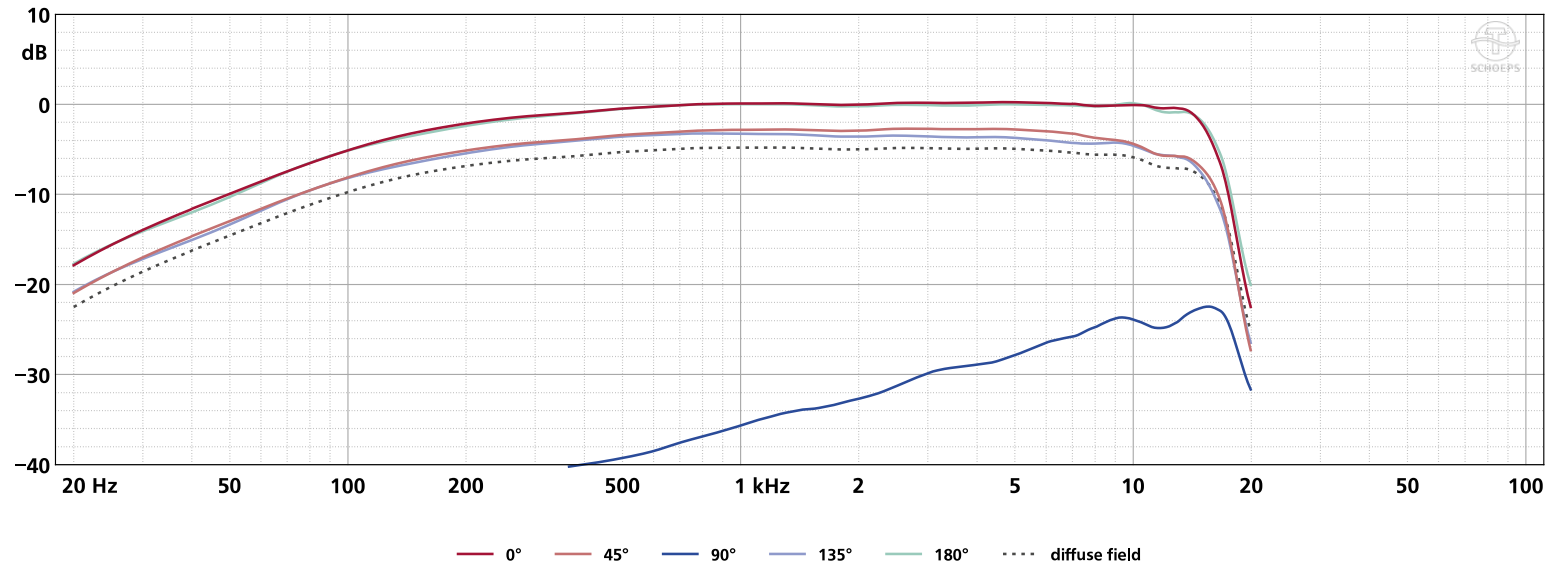
MK 4



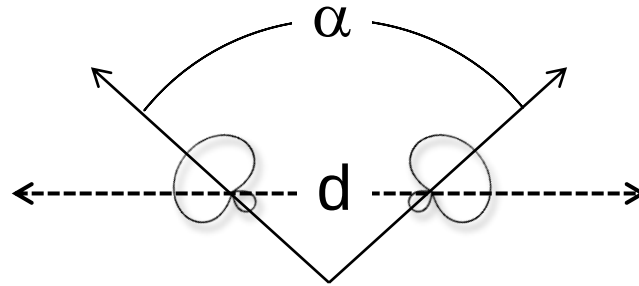
MK 41



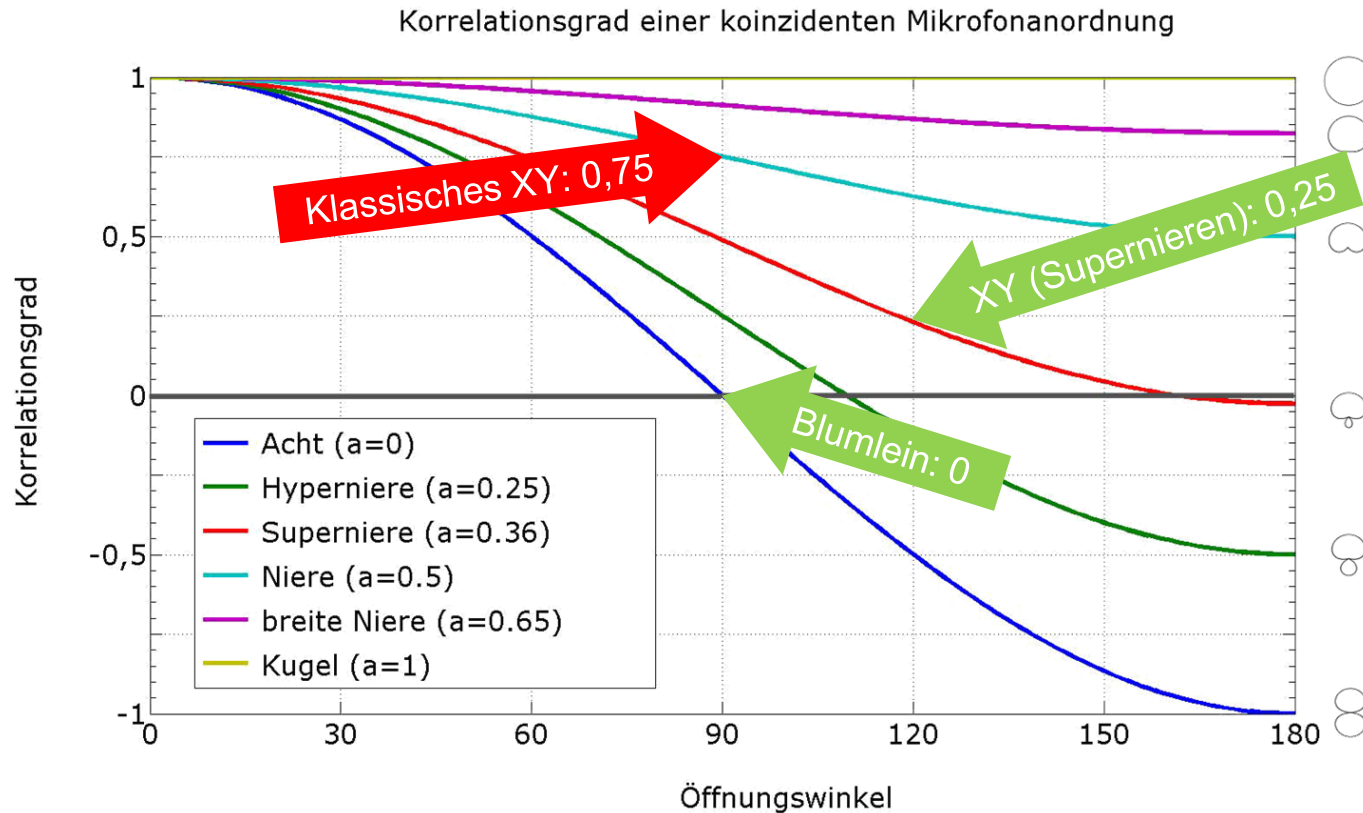
MK 8



Diffusfeld-Korrelation (α, d, a, λ)



Diffusfeld-Korrelation: 2 koinzidente Mikrofone



Presets user-defined ▾



Left Supercardioid (MK 41) ▾

Center - ▾

Right Supercardioid (MK 41) ▾

Base 10 cm



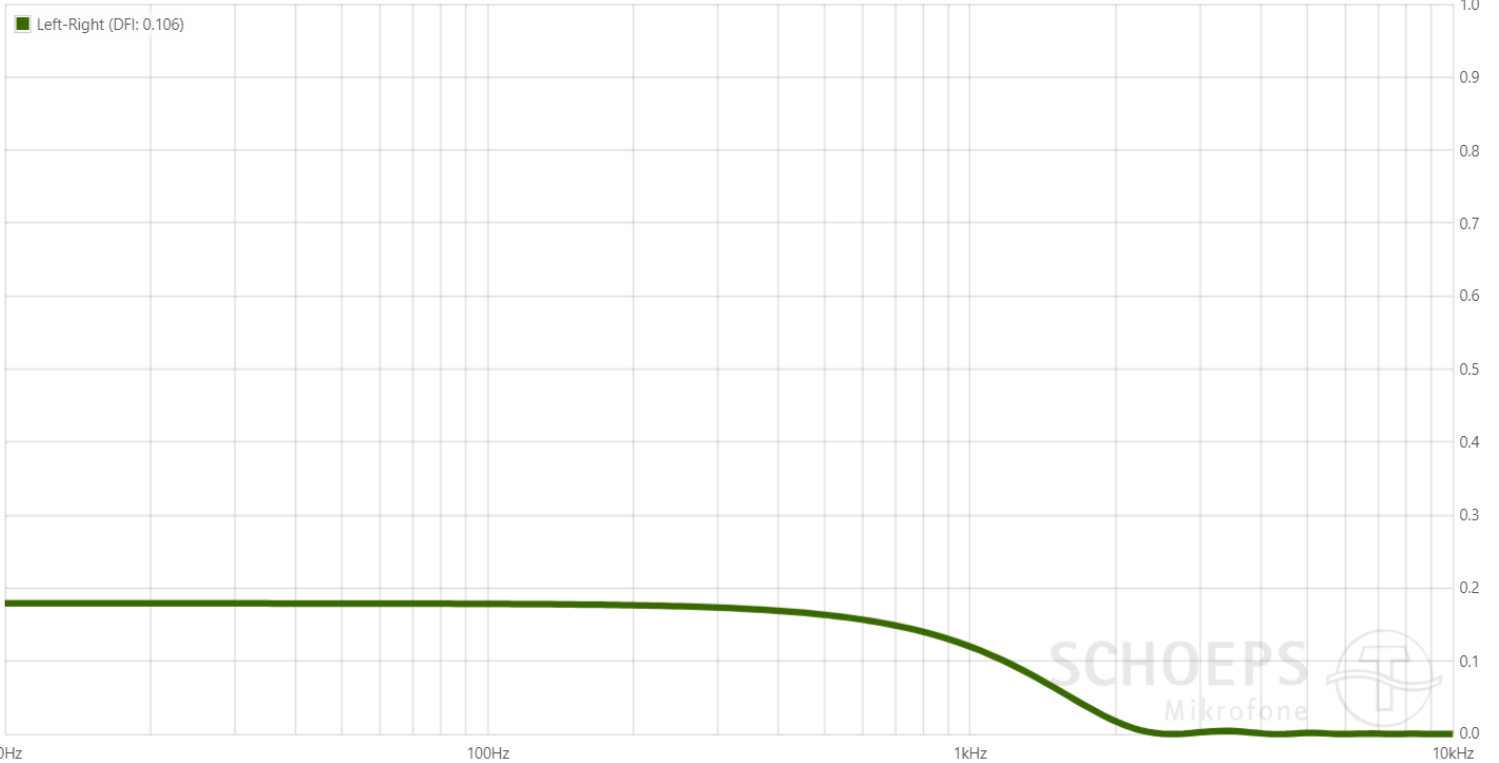
Epsilon 50°



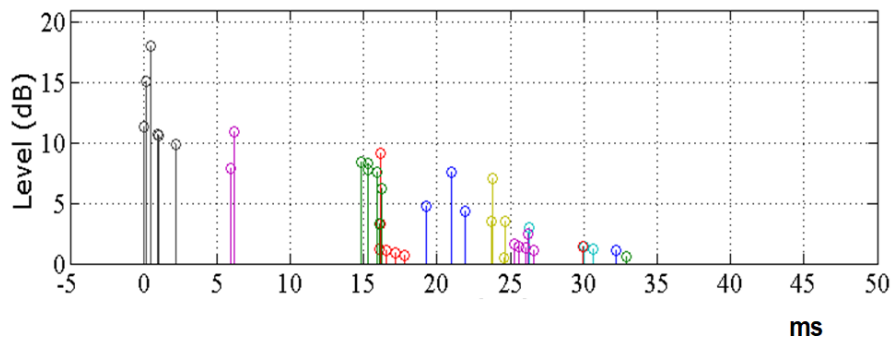
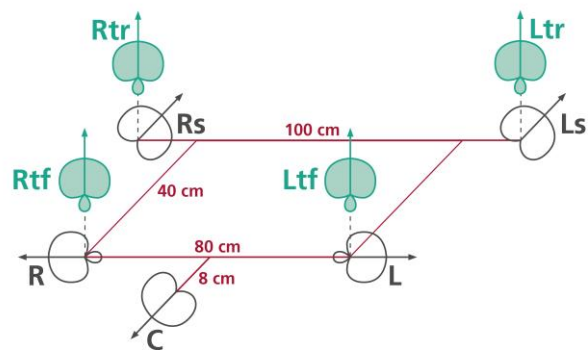
⚙️ Preferences >

ℹ️ Impressum >

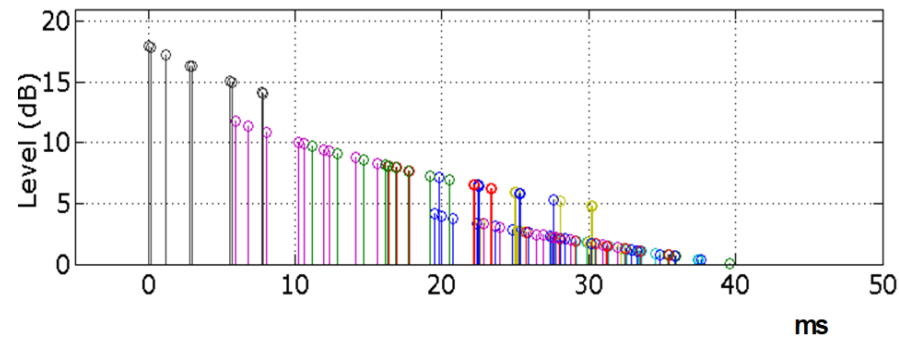
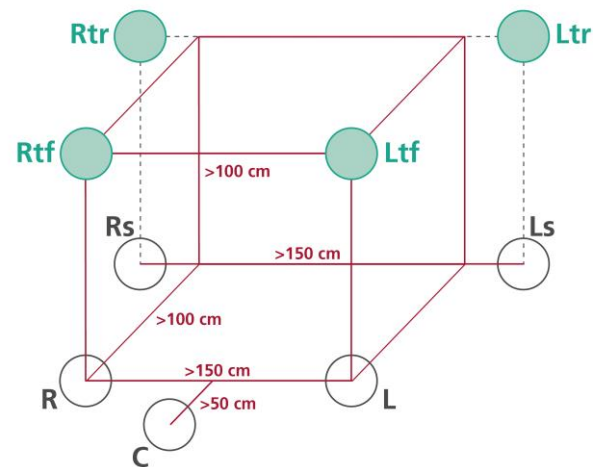
❓ Help >



OCT-3D



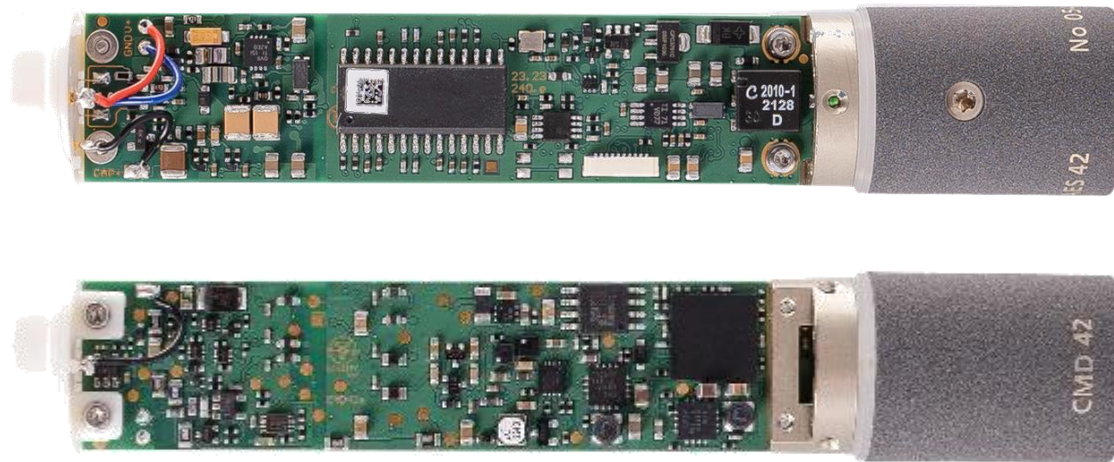
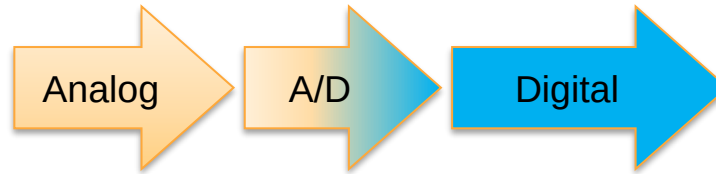
„Decca Tree“-3D



Digitales Mikrofon CMD 42: Einzigartig, aber nicht für jeden



CMD 42: Innenleben





Helmut Wittek, 24.05.2024

@Simon Hayes



EXPLOSIVES

Order No. 14825

SCHOEPS
CMD 42

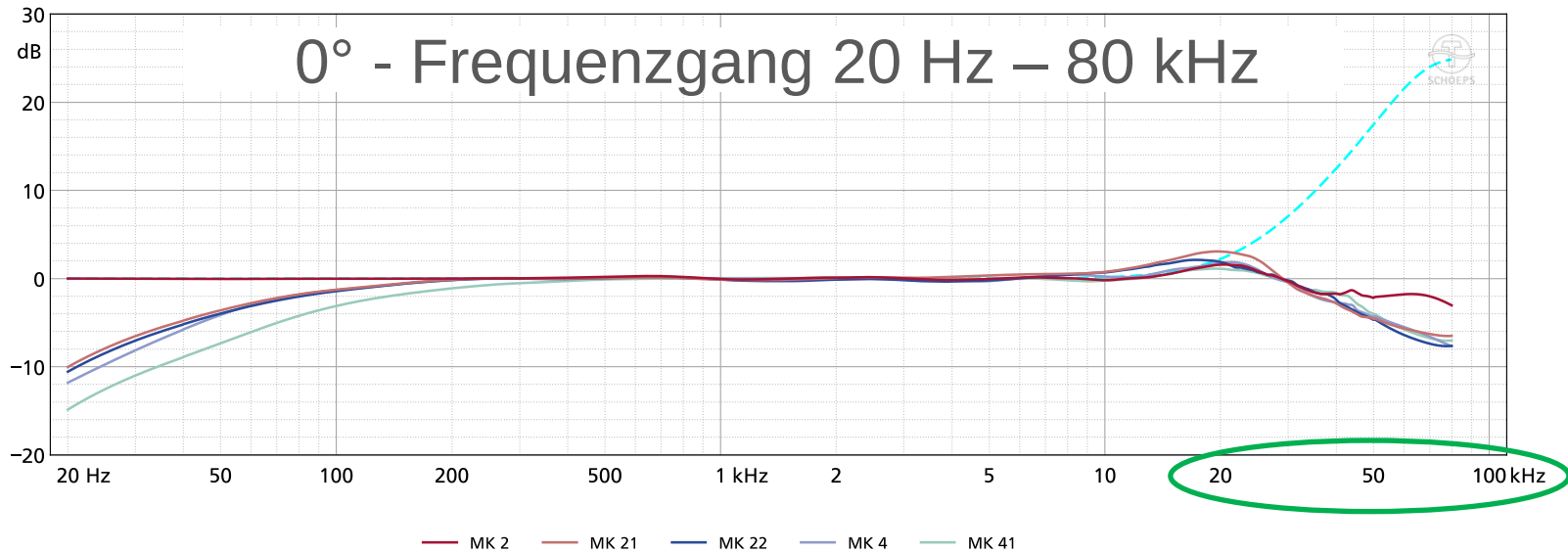
CMD 42

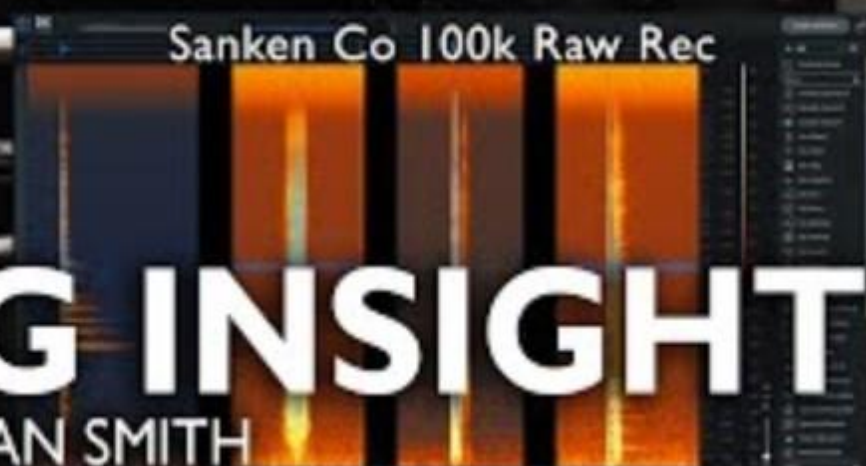
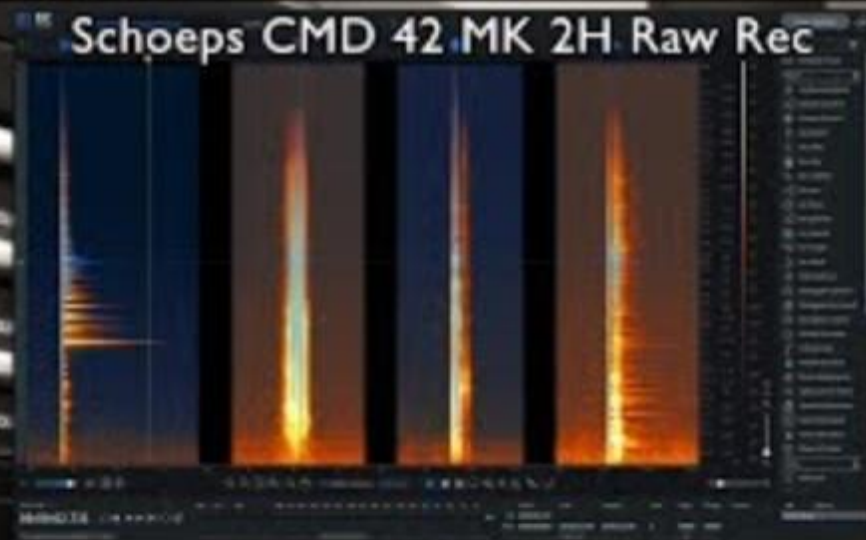
Zielgruppe für das CMD 42:

- ✓ AES42-Schnittstelle vorhanden
- ✓ Du brauchst diese Features:
 - Hohe Dynamik ohne Aussteuern
 - Keine Einstreuungen
 - DSP: EQ-Presets, Pad, Upmix
 - Ultraschallinhalte für Sound Design

@Nathan Smith

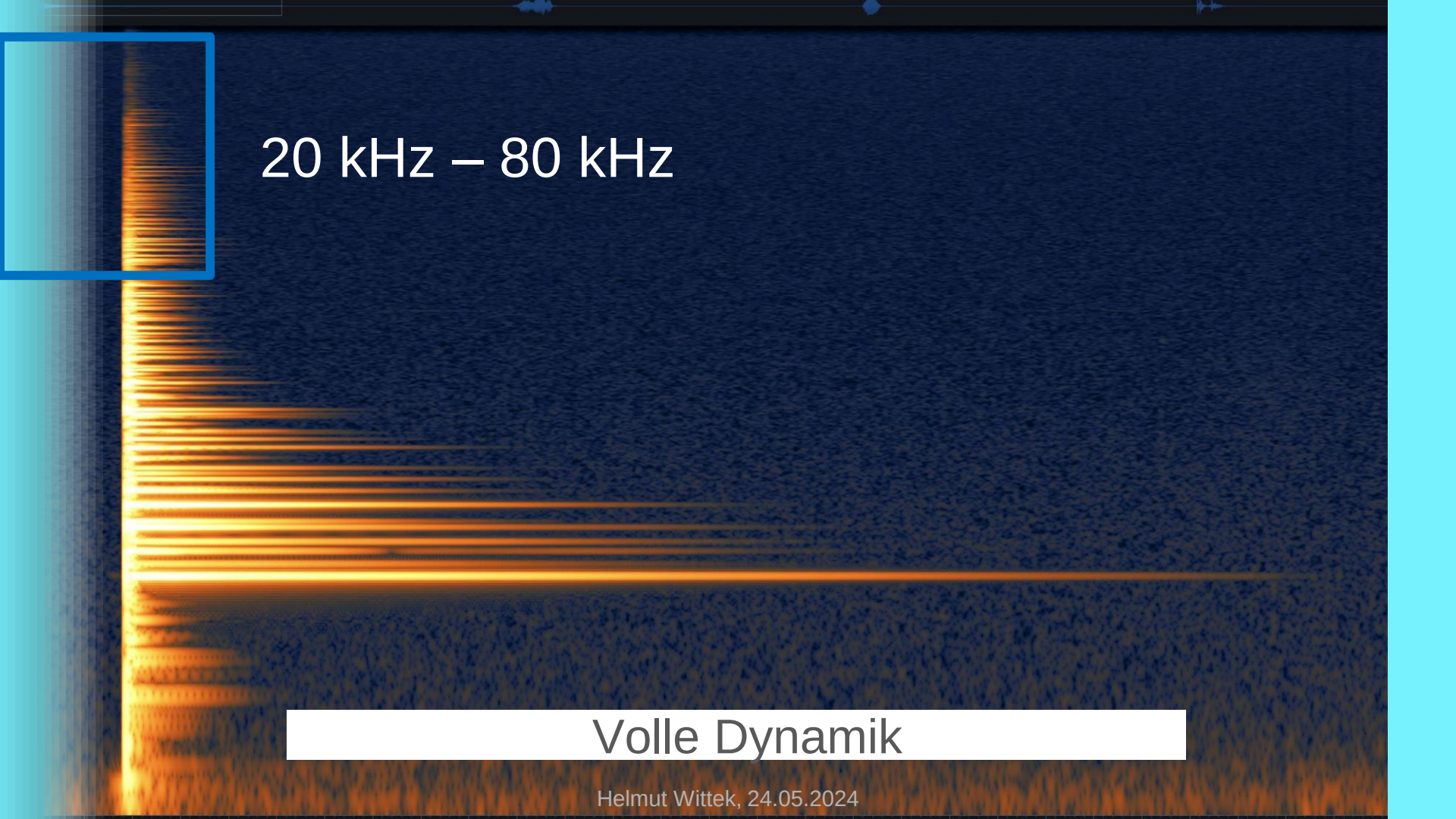
Helmut Wittek, 24.05.2024





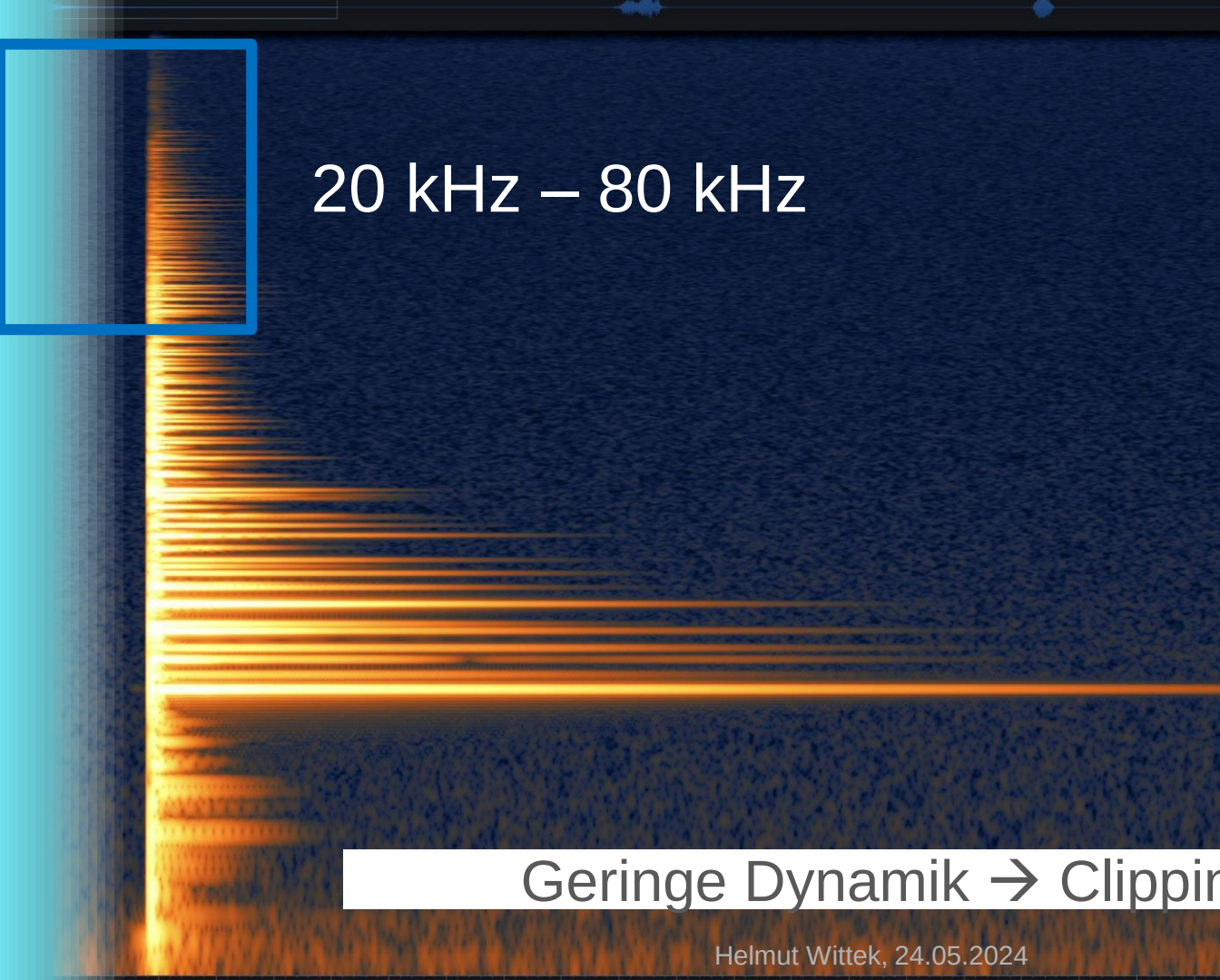
RECORDING INSIGHT

WITH NATHAN SMITH

A spectrogram with a dark blue background and horizontal orange and yellow lines representing frequency over time. A blue rectangular box is located in the top-left corner.

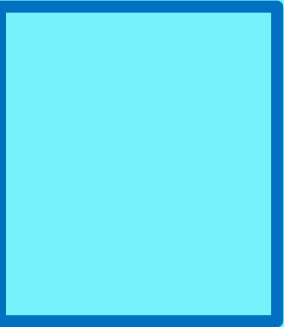
20 kHz – 80 kHz

Volle Dynamik

A spectrogram showing frequency content over time. The background is dark blue. A vertical band of high-frequency energy is visible on the left side, highlighted by a blue rectangular box. The text '20 kHz – 80 kHz' is overlaid on the right side of the spectrogram.

20 kHz – 80 kHz

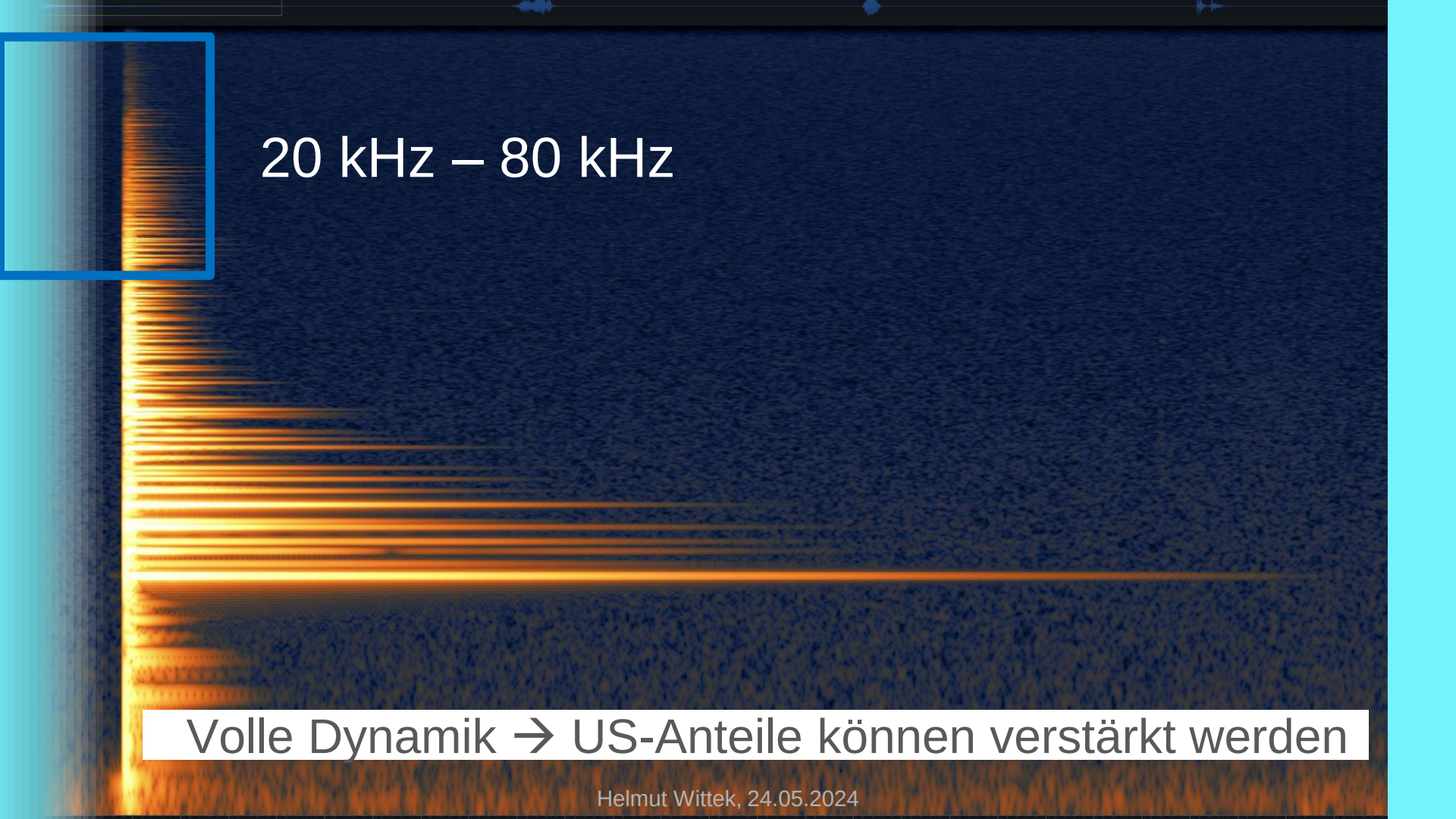
Geringe Dynamik → Clipping



20 kHz – 80 kHz



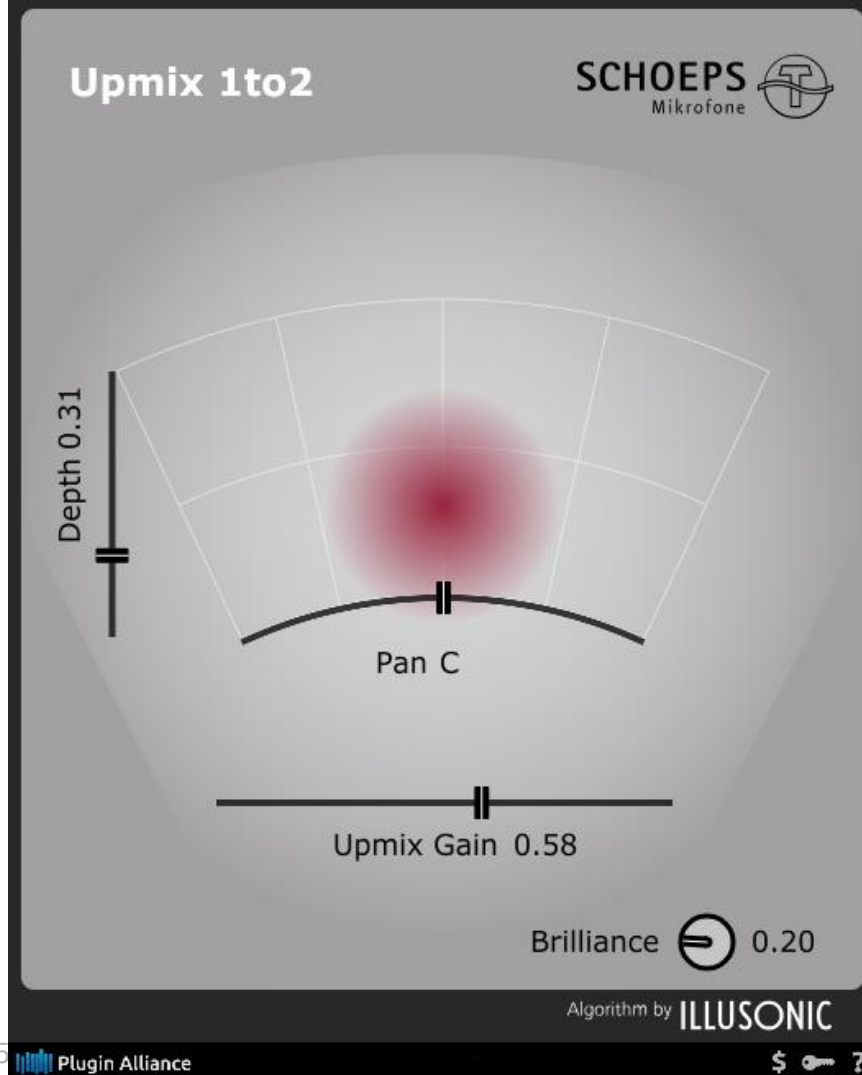
Geringe Dynamik → Rauschen verdeckt US-Anteile

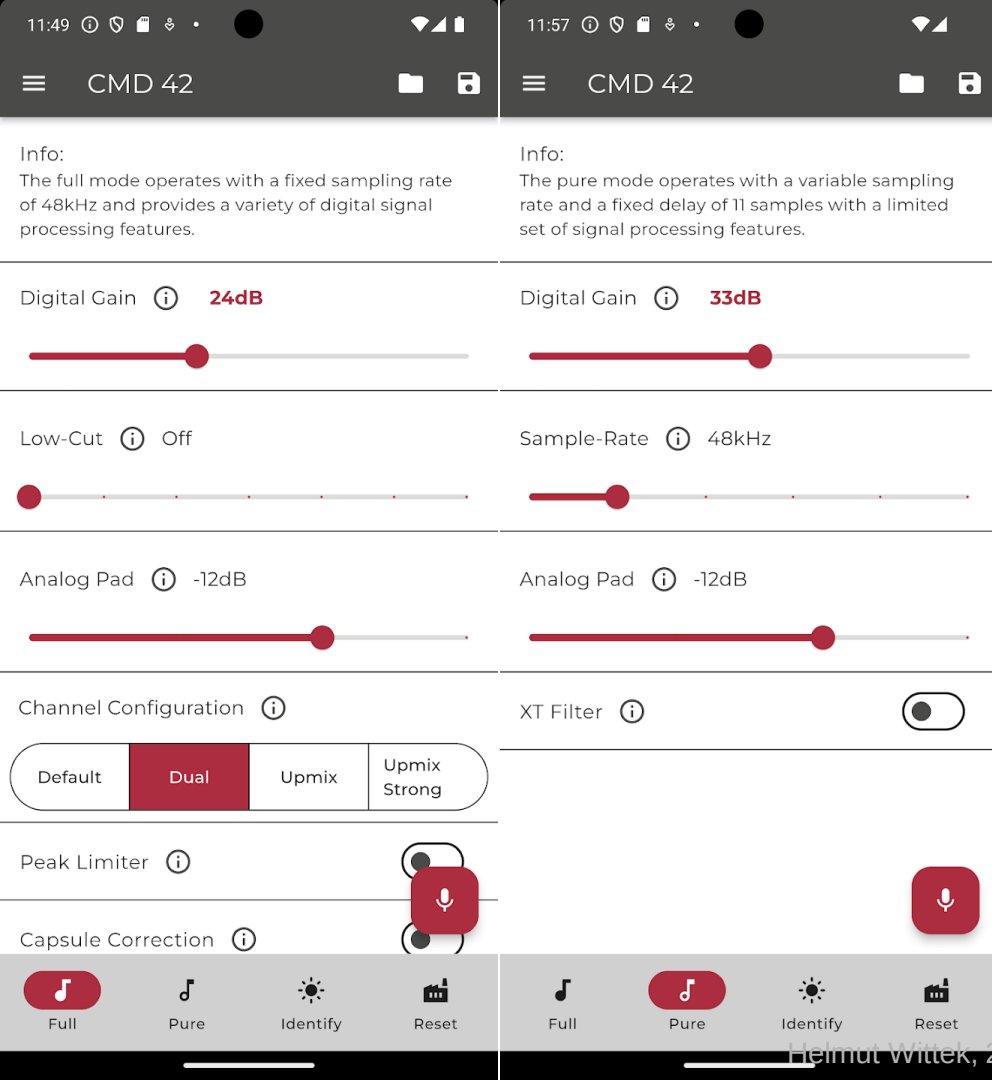
A spectrogram with a dark blue background and horizontal orange and yellow lines representing frequency components. A blue rectangular box is positioned in the upper left corner, highlighting a specific frequency range.

20 kHz – 80 kHz

Volle Dynamik → US-Anteile können verstärkt werden

Mono Upmix





Remote App





Helmut Wittek, 24.05.2024



Simon Hayes Sound

20. März 2022 · 🌐



My favourite boom microphone: The Schoeps CMC6/MK41 capsule. As a young boom operator in the early 90's i kept reading about this combination in the LSC catalogue which i eagerly waited for each year to be delivered from the USA. The more research i did, the more it became clear that many US Mixers used this mic solely for all boom duties. One of my heroes, Jeff Wexler used it for the whole of "An Officer and a Gentleman". The first UK Sound Mixers i knew who bought the mic w... [Mehr anzeigen](#)

👍❤️ 296

31 💬 23 ➦

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Relevanteste ▼



Mac Ruth
I couldn't agree more about that mic Simon! 🙌

2 J. [Gefällt mir](#) [Antworten](#)



Stevie Haywood
MK41, makes everyone's voice sound wonderfully warm and rich.

2 J. [Gefällt mir](#) [Antworten](#)



David George
I need a boom operator for my gym instructions 🤪



Als Helmut Wittek kommentieren



Danke!



- CMD 42: <https://schoeps.de/cmd>
- Immersive: <https://schoeps.de/loesungen/3d-vr.html>
- MK-Kapseln: <https://schoeps.de/produkte/colette/kapseln.html>
- Knowledge Base: <https://schoeps.de/wissen/knowledge-base.html>