

ARI HRTF format

Matrices in the hrtf_M_ files*

stimPar

- SamplingRate: Sampling rate of wav files
- Resolution: Bit rate of wav files
- GenMode: 1=acoustical
- WorkDir: Local directory
- ID: Experiment ID
- SubjectID: Subject's ID in ARI database

hM

- Matrix with the impulse responses (IRs)
- size: ["length" "position-count" "channel-count"]
 - length: length of each IR in samples
 - position-count: the total number of positions for which HRTFs have been measured
 - channel-count: the total number of recorded audio channels. For HRTFs this number is 2 (left ear, right ear).

posLIN

- Information about the position for each IR in hM.
- size: ["position-count" 7]
 - Column 1: `azi`, (from 0° to 359°, spherical coordinate system)
 - Column 2: `ele` (from -30° to 90°, spherical coordinate system)
 - Column 3: `channel` (index of the audio channel used for system excitation)
 - Column 4: `azimuth` (from -90° to +90°, spherical coordinate system)
 - Column 5: `elevation` (from -90° to +270°, spherical coordinate system)
 - Column 6: `lateral` (from -90° to +90°, horizontal-polar coordinate system)
 - Column 7: `polar` (from -90° to +270°, horizontal-polar coordinate system)

latLIN

- Latency of the IRs in samples, relative to Settings/Signal/"System Latency".
- size: ["position-count" 7]

IRnrLIN

- Number of Impulse responses in one item. Allows to recalculate the position of the IRs in one item.
- size: [itemNR 1]

itemnrLIN

- Number of items in the item list
- size: [itemNR 1]

itemidxLIN

- Item list index number for each IR

- size: ["position-count" 1]

ampLIN

- Amplitude of the excitation signal for an item in dB PD
- size: [itemNR 1]