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Music experience by hearing impaired subjects

Improving speech understanding through the use of hearing aids has been the subject of research for years and has since paid off. For hearing impaired people who love music, the use of hearing aids is far from optimal: the quality of the music experience still leaves much to be desired. In the "Golden Hearing" project we are a) testing music perception with components such as pitch, volume, rhythm, timbre, ambience, reverberation, directional hearing, amplitude and frequency modulation, but also melody and instrument recognition; b) mapping it through questionnaires, including the degree of hearing loss, musical preference and involvement, and the perception of music, such as enjoying music, for instance in terms of timbre in different acoustic conditions, with dynamic, spectral and polyphonic differences. distinguishing melodies and instruments; c) improving it by applying smart sound processing algorithms and fitting rules in hearing aids. In this presentation we will show several of the surprising results of these three coherent aspects.