



ITU-T Workshop

From Speech to Audio: bandwidth extension, binaural perception



unrestricted



Session 1 : Loudness

The multimedia revolution has led to an increase in the required audio signal bandwidth for next-generation networks. In addition to existing narrowband and wideband codecs, development of full band is taking place.

The goal of this session is to initiate significant technical work on a common loudness rating algorithm for all bandwidths from narrowband to full band audio signals.

In this context, two contributions have been presented.

High frequencies for the hearing impaired

- demonstrate perceptual benefit of extended bandwidth of amplification and to compare normal hearing to hearing-impaired subjects.
- 4 Normal Hearing and 9 hearing-impaired subjects .
- Preference for NH people at bandwidth up to 16 KHz, Experiments showed that for 5 on 9 hearing-impaired subjects insufficient audibility at frequencies upper than 6 KHz occurs.