**Aim:** Predict keywords that describe the music of recordings from large world music archives.

**Motivation:** Metadata associated with ethnomusicological research is often inconsistent, incomplete, and inaccurate [2]. Automatic tagging has been successfully applied to popular (Western) music [1]. We apply automatic tagging to improve metadata in world music collections [3].

**Method**

- 4 x (conv2D, ReLU, max-pooling) + CNN [1]
- input: mel-spectrogram
- output: tag probability

**Dataset**

- 4209 tracks training, 1404 tracks testing
- 48 tags - Country, Language, Culture
- each tag occurs min=56, max=796, mean=176
- 69 unique tag vectors

basic NLP doesn’t fix these language tags:
- Nyore, Nyore (? Nyole), Nyoro
- Luhya, Luyia, Luyia (Kisa)

**Challenges**

- Popular vs World music:
  - the tag taxonomy is different
  - the audio signal is more noisy

**Results**

- **Model & Data**
  - AUC
    - [1] on world music: 0.791
    - [1] on popular music: 0.894

**References**