

at VoxSRC 2023

Séverin Baroudi Hervé Bredin Alexis Plaquet Thomas Pellegrini

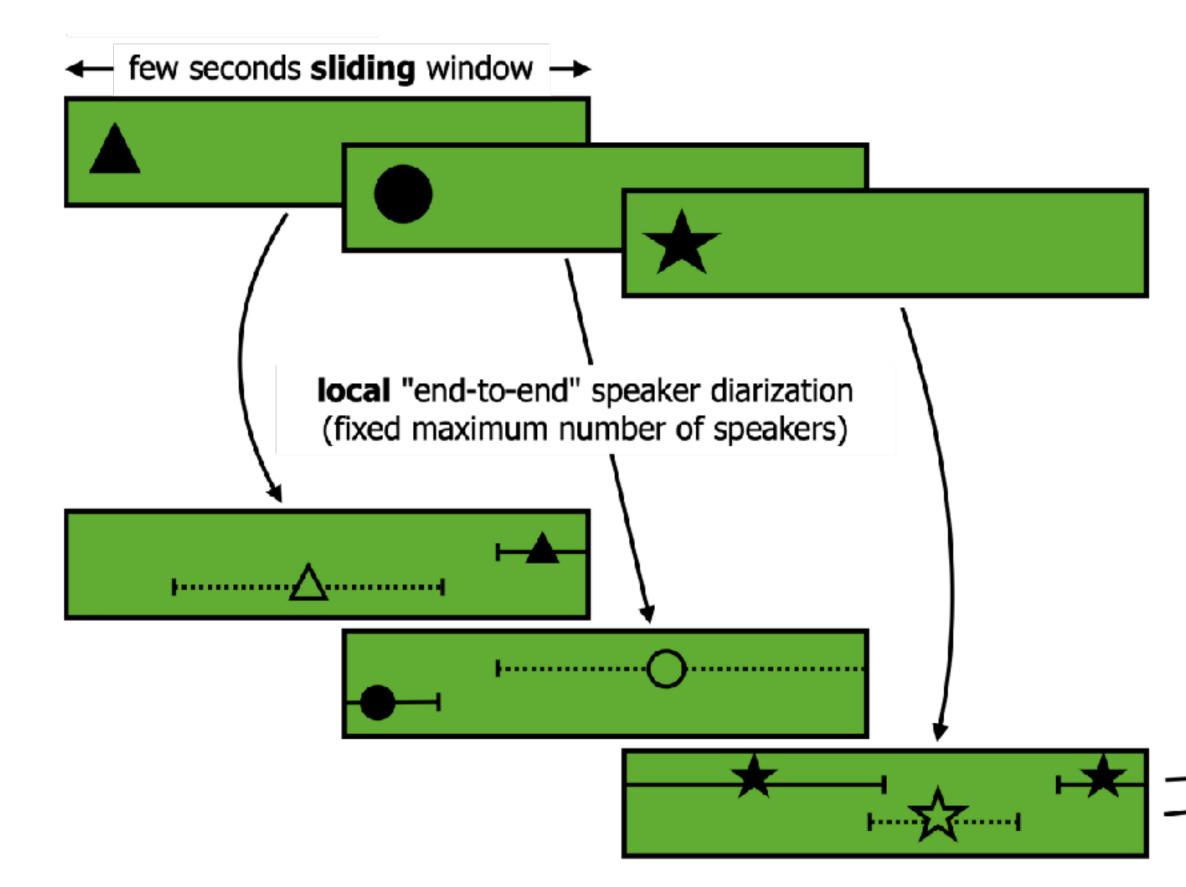


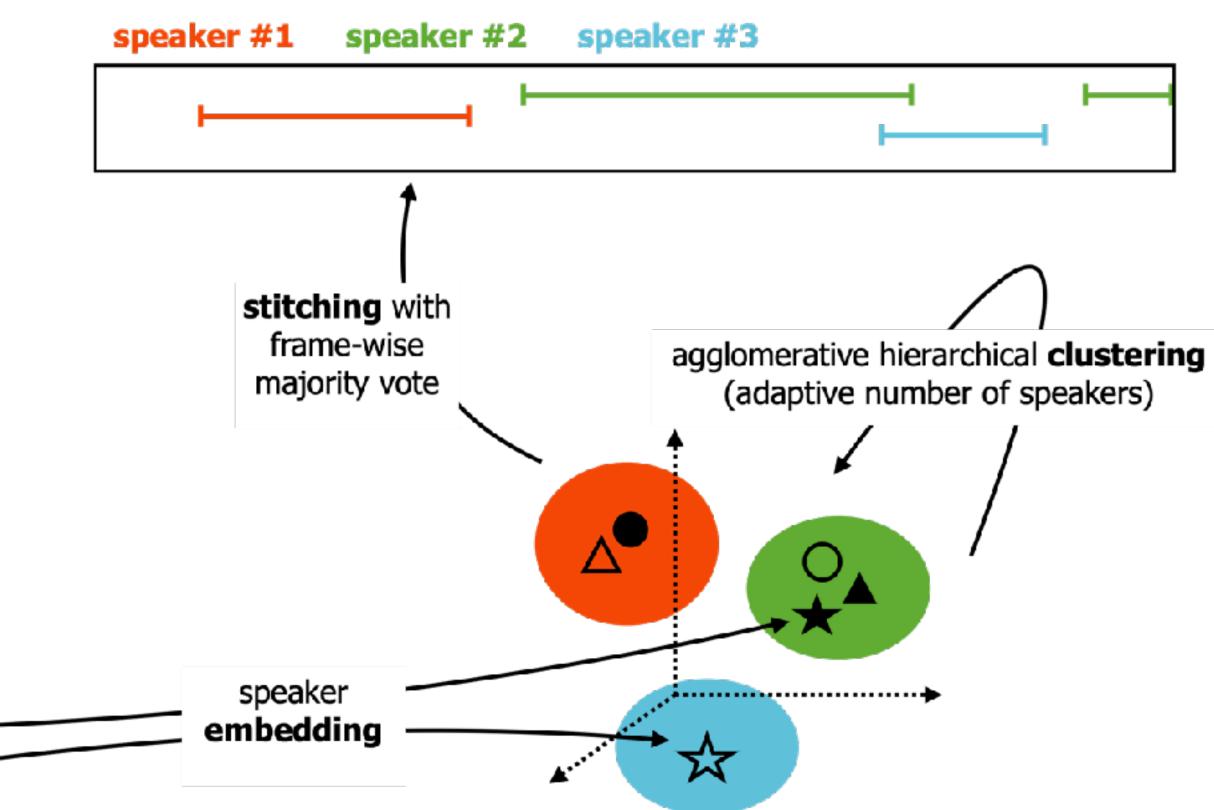




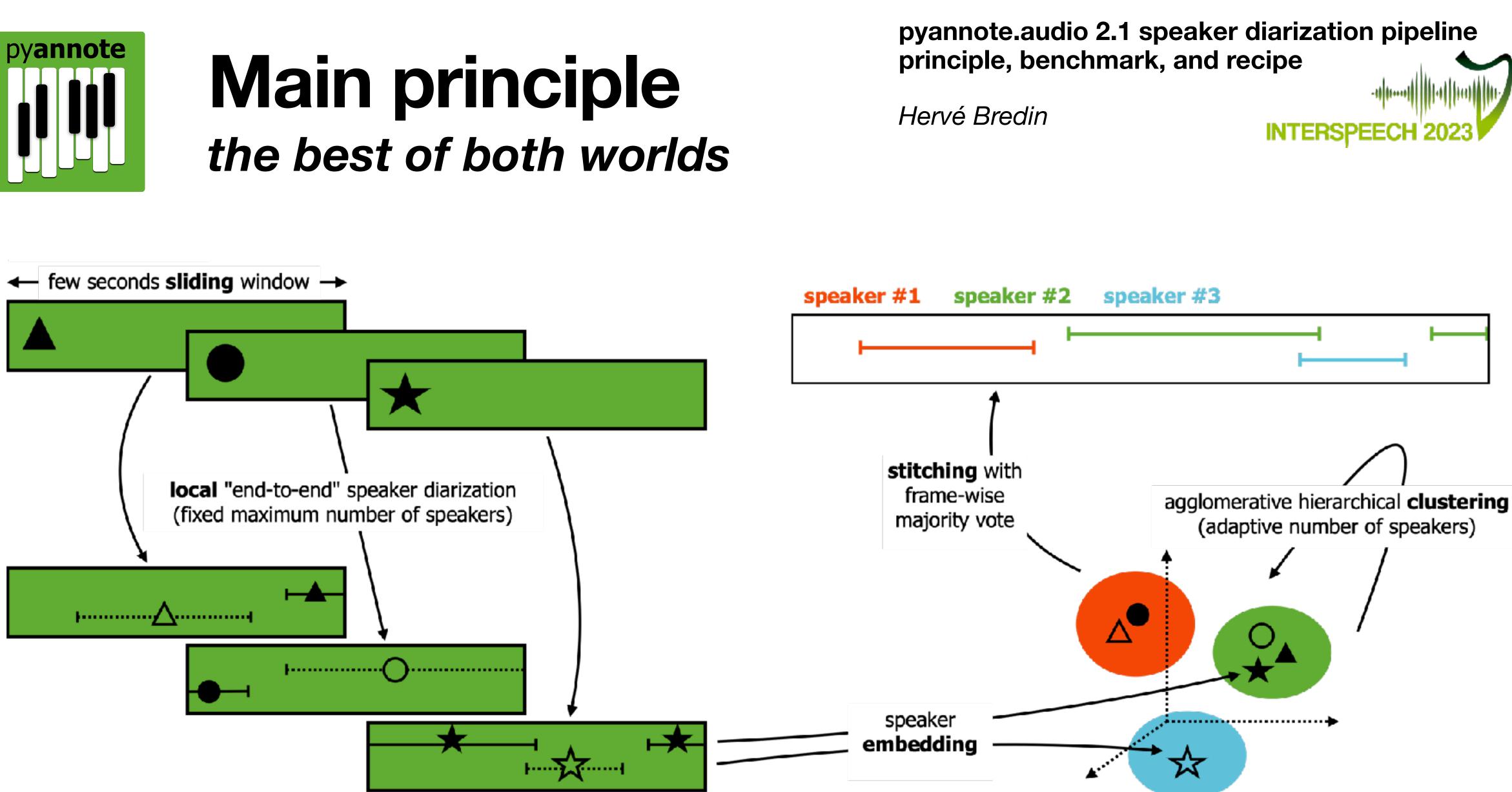


Main principle the best of both worlds







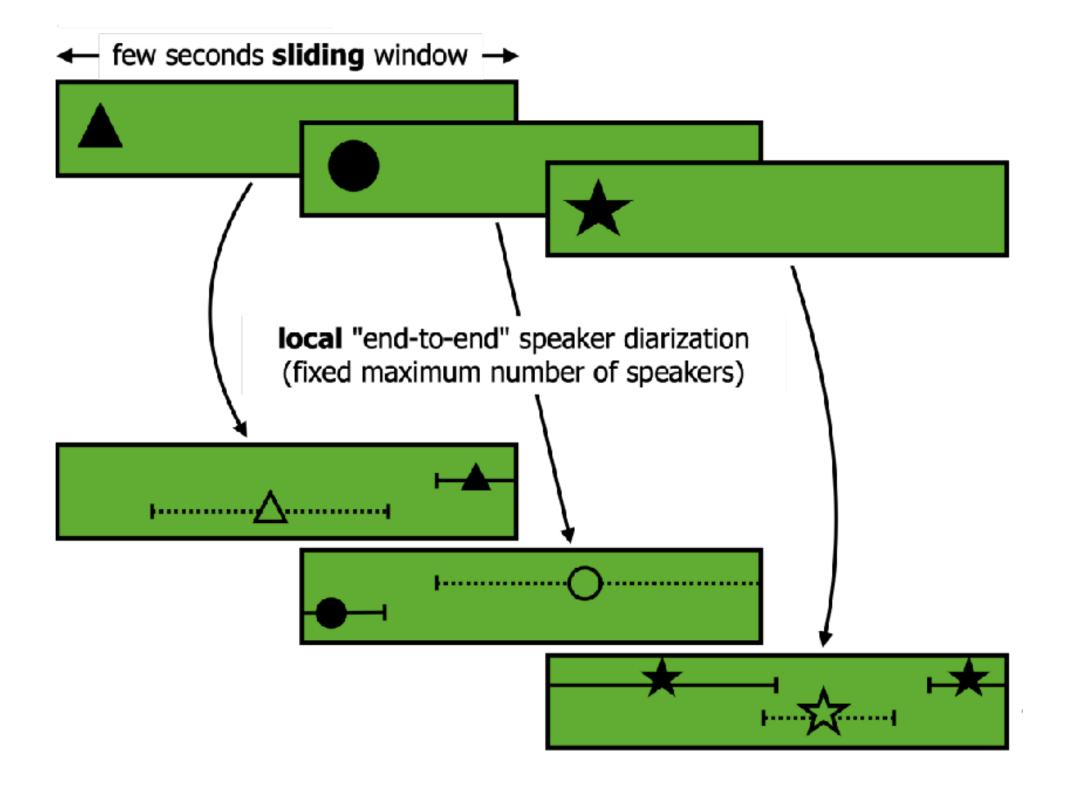






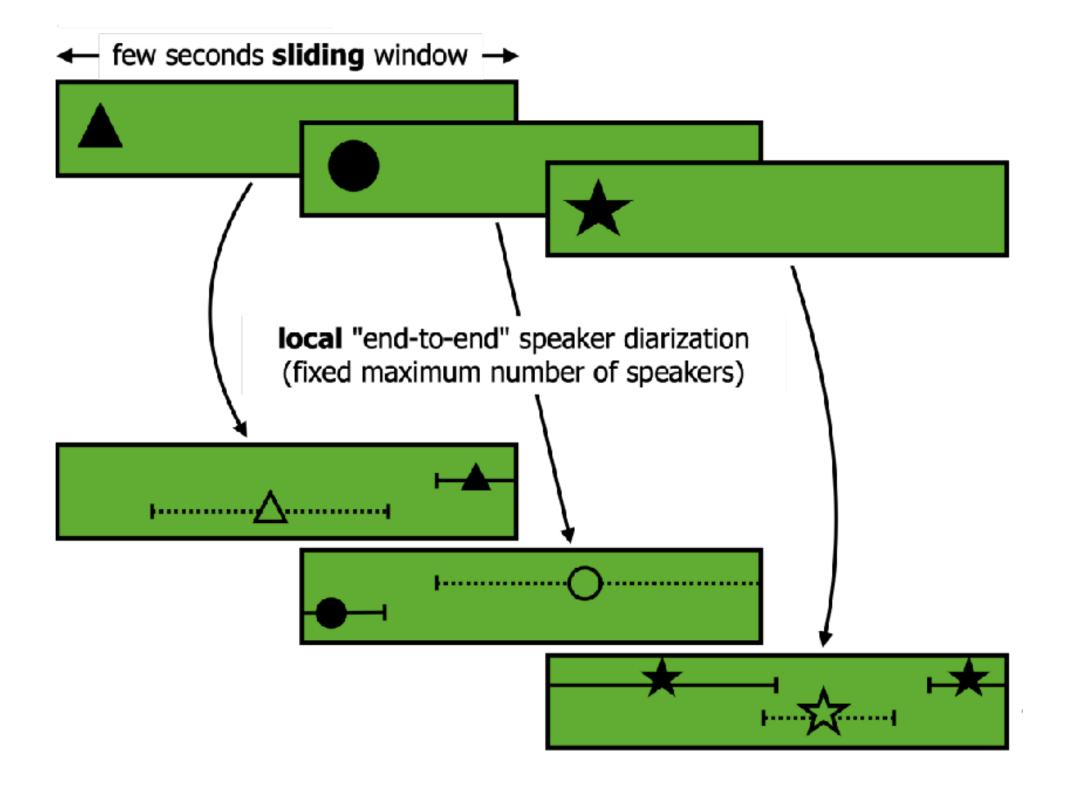








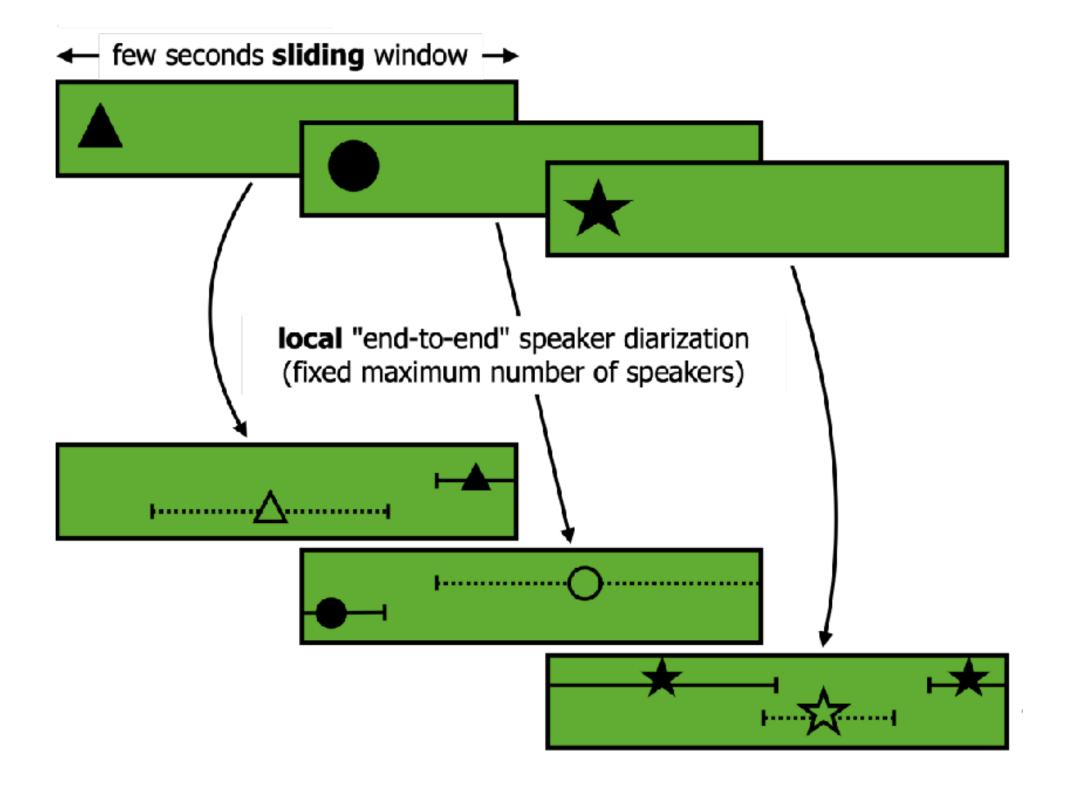




 Larger training set AMI, DIHARD, VoxConverse + AISHELL4+ AliMeeting + AVA-AVD + Ego4D+ MSDWild + REPERE



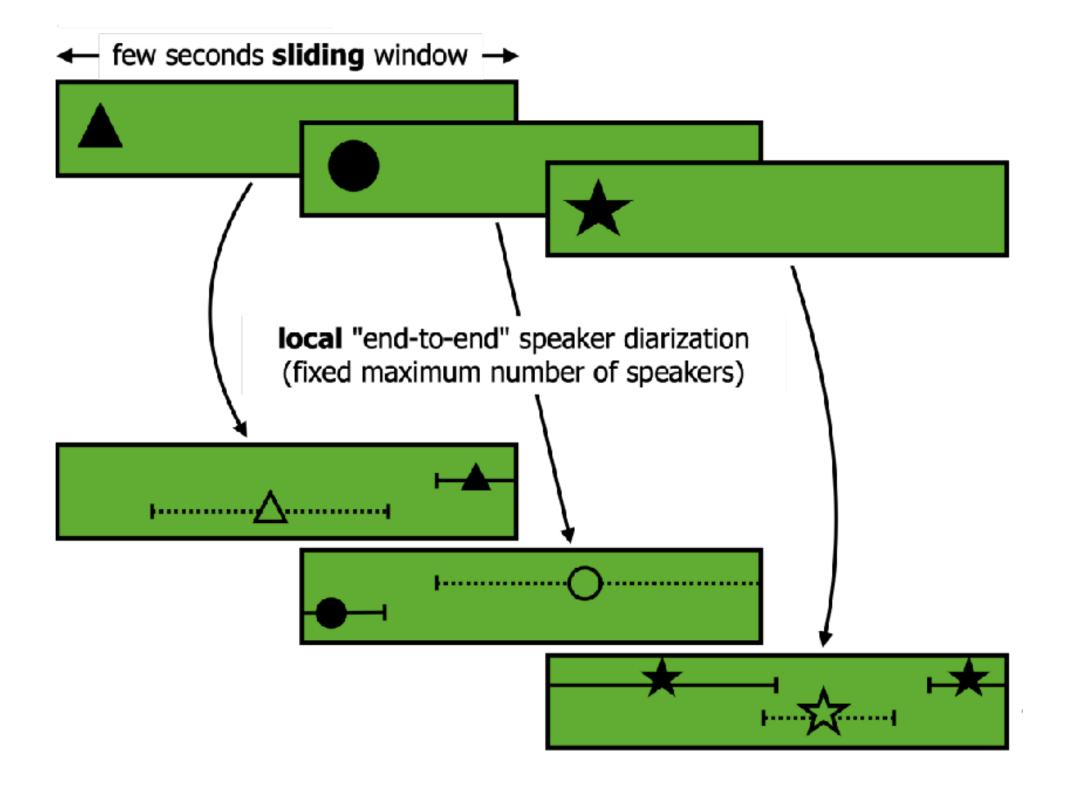




- Larger training set AMI, DIHARD, VoxConverse + AISHELL4+ AliMeeting + AVA-AVD + Ego4D+ MSDWild + REPERE
- Longer windows from 5s to 10s



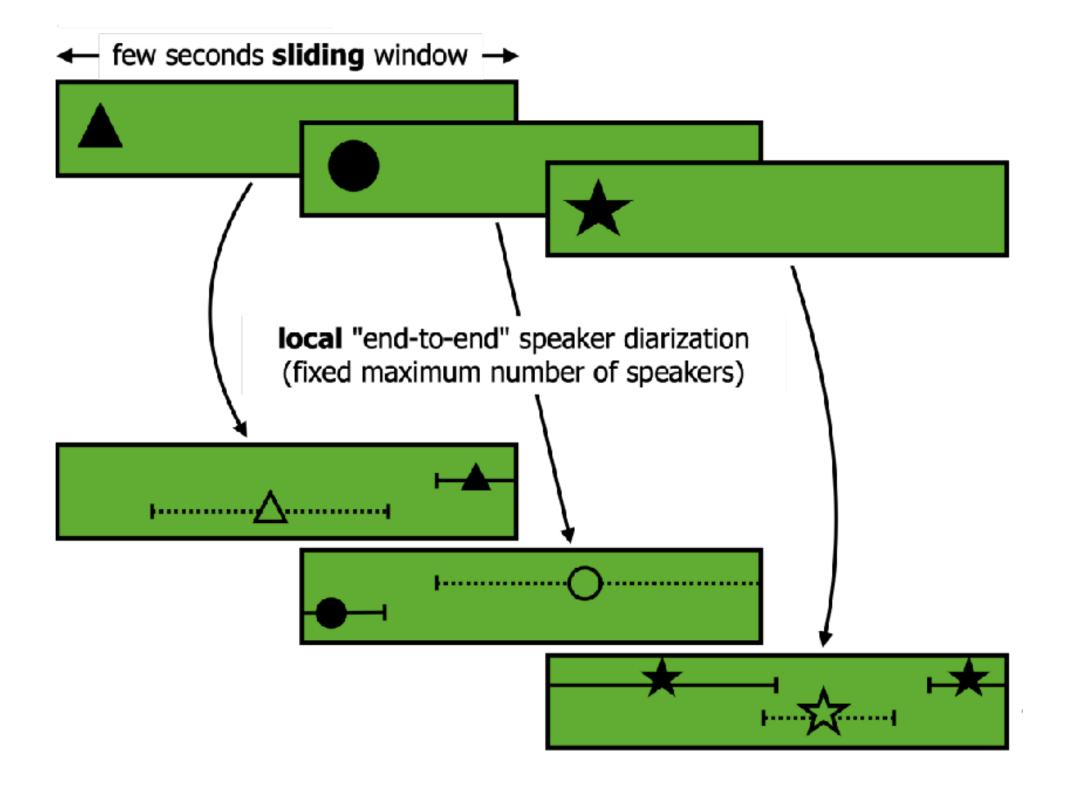




- Larger training set AMI, DIHARD, VoxConverse + AISHELL4+ AliMeeting + AVA-AVD + Ego4D+ MSDWild + REPERE
- Longer windows from 5s to 10s
- Powerset encoding





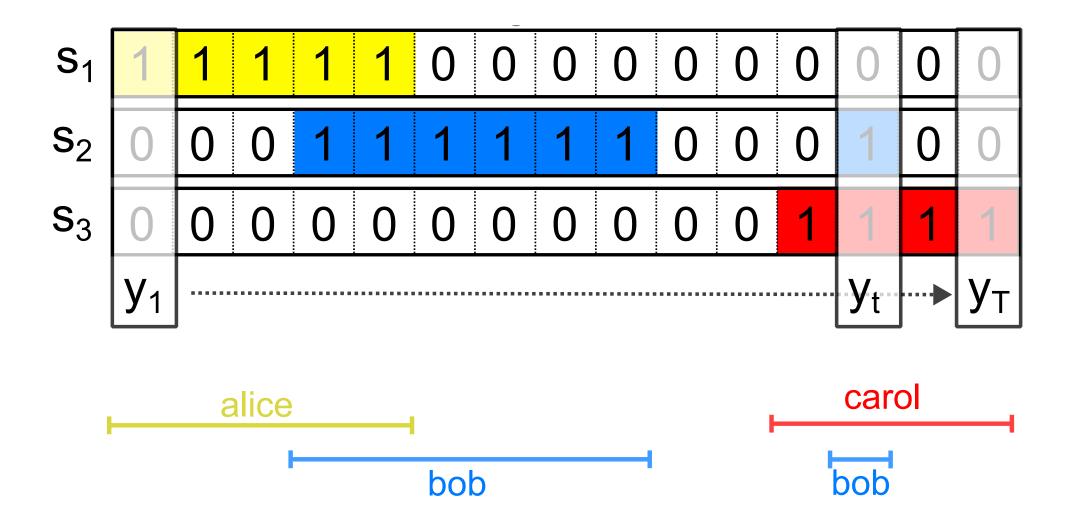


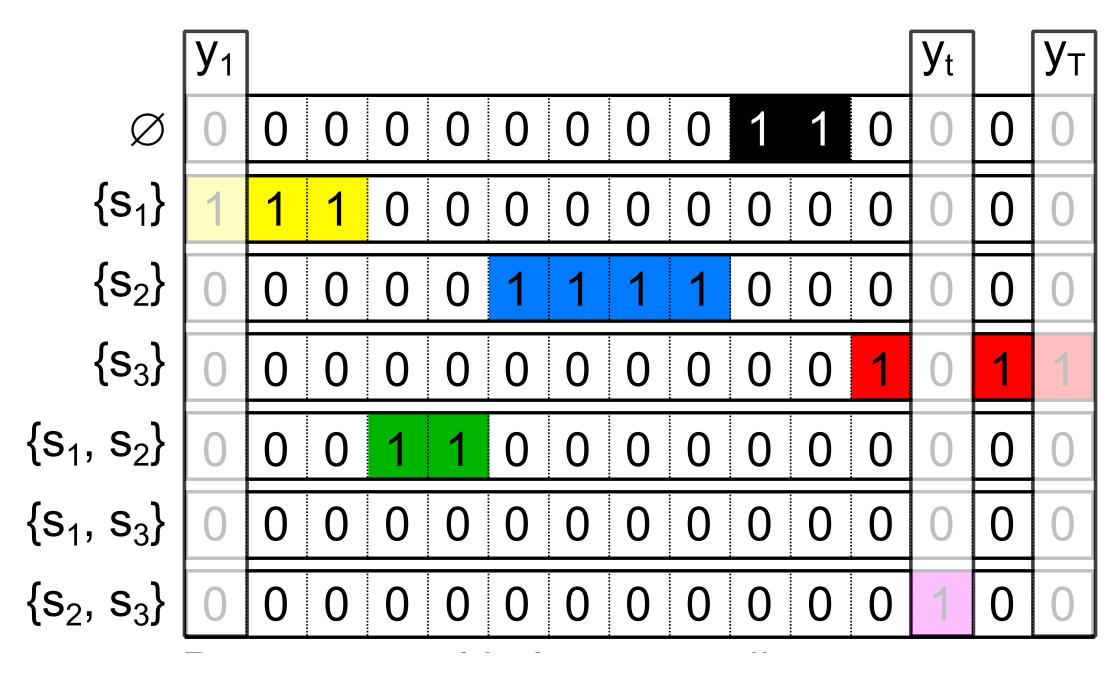
- Larger training set AMI, DIHARD, VoxConverse + AISHELL4+ AliMeeting + AVA-AVD + Ego4D+ MSDWild + REPERE
- Longer windows from 5s to 10s
- Powerset encoding
- Self-supervised feature extraction





Powerset encoding from multi-label (+ threshold) to multi-class (+ argmax)

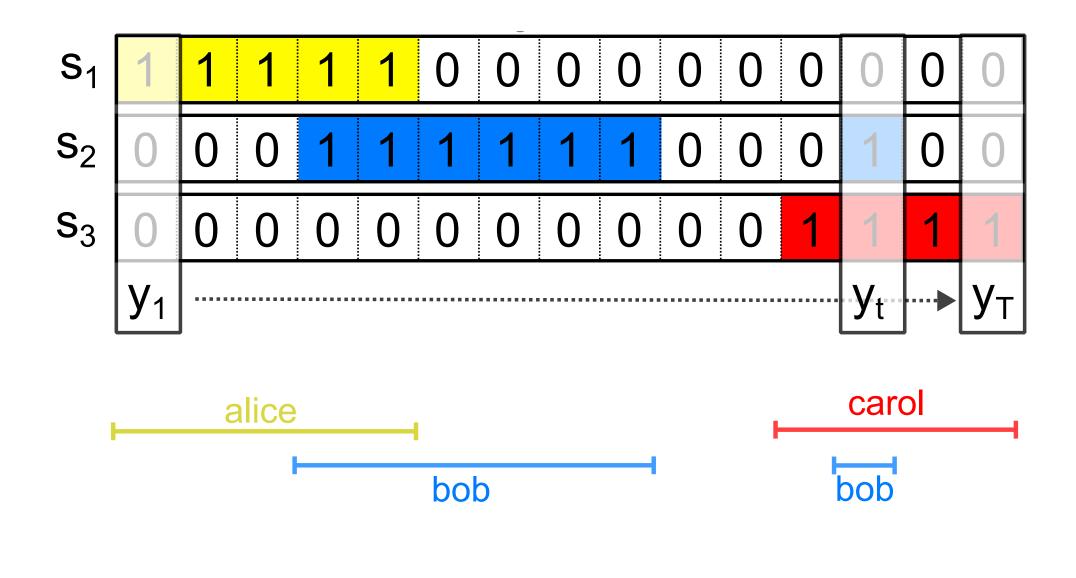








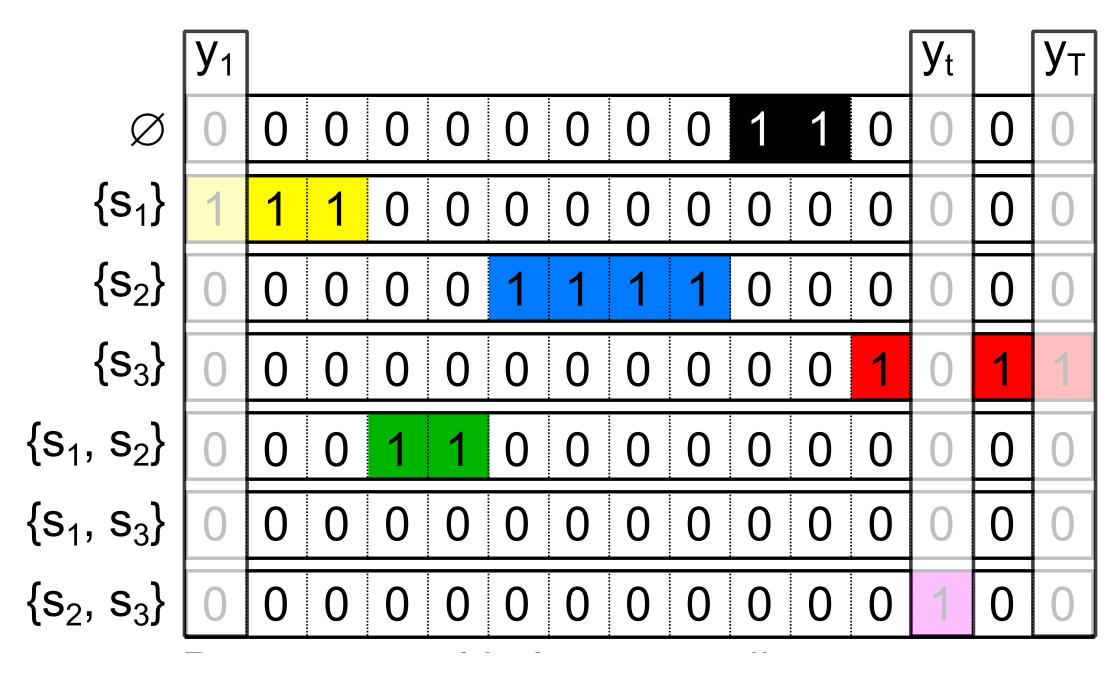
Powerset encoding from multi-label (+ threshold) to multi-class (+ argmax)



 Powerset multi-class cross entropy loss

 for neural speaker diarization

 Alexis Plaquet & Hervé Bredin
 NTERSPEECH 2023

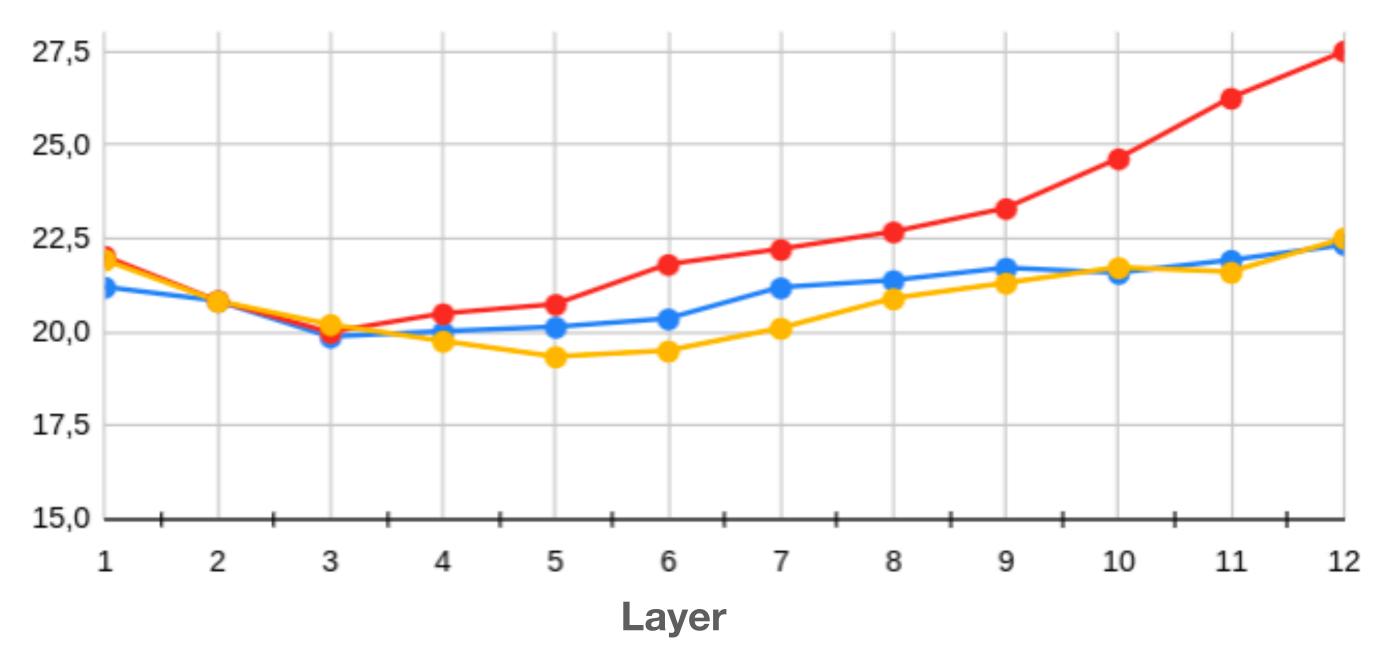






Self-supervised feature extraction wav2vec 2.0 vs HuBERT vs WavLM

Diarization error rate on DIHARD

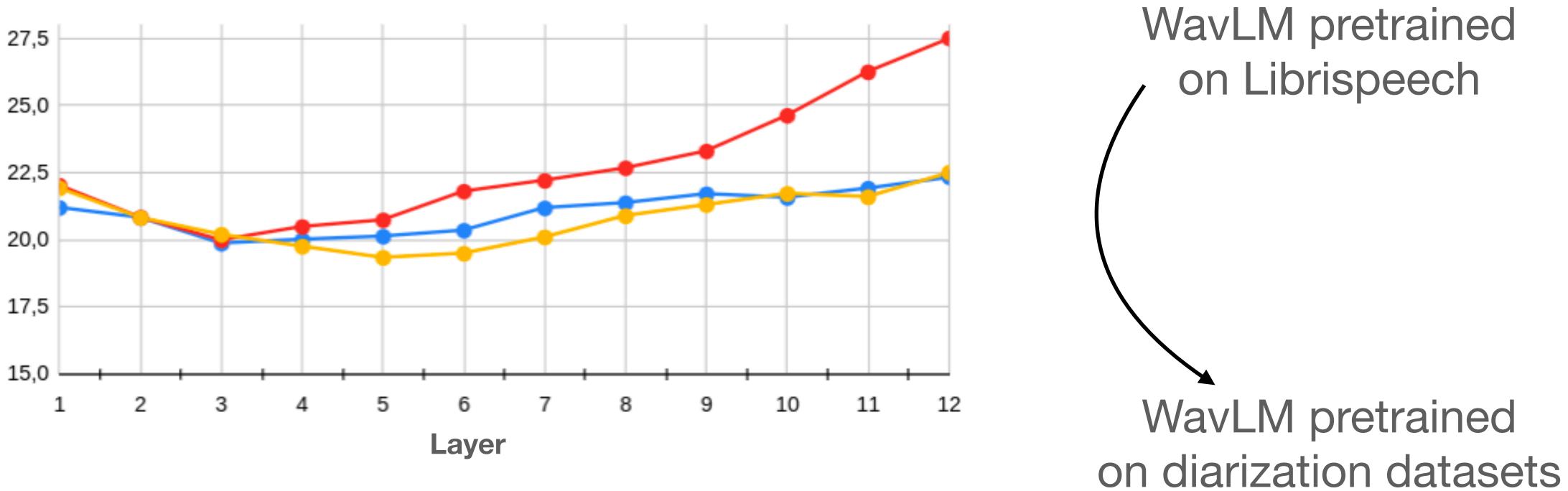


WavLM pretrained on Librispeech



Self-supervised feature extraction wav2vec 2.0 vs HuBERT vs WavLM

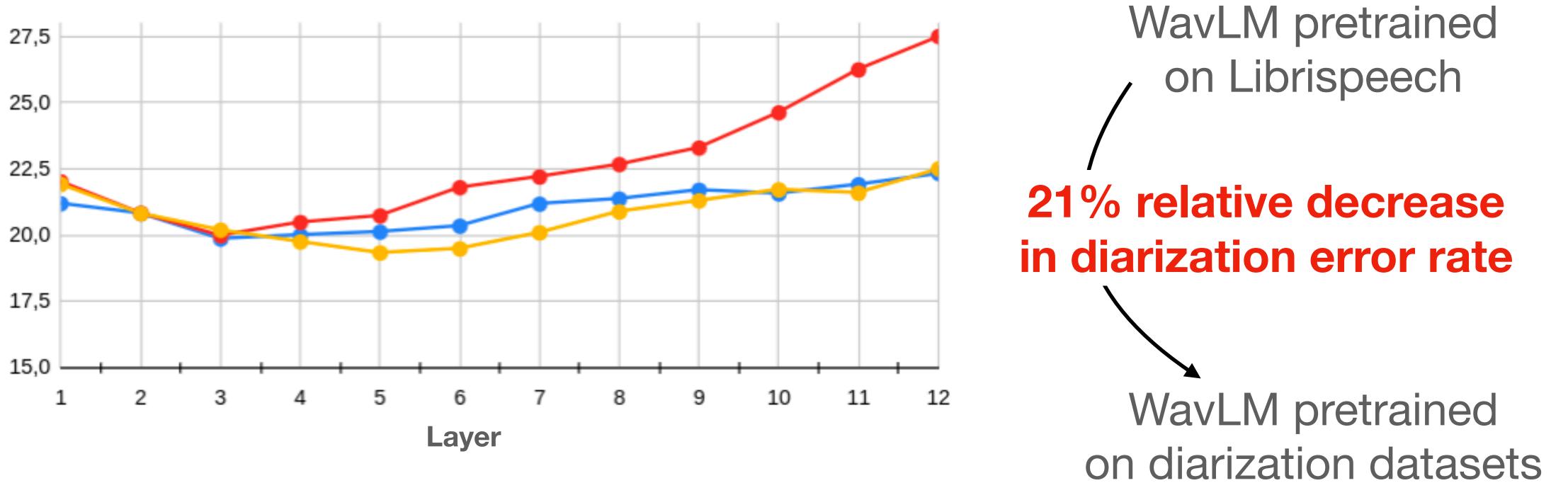
Diarization error rate on DIHARD





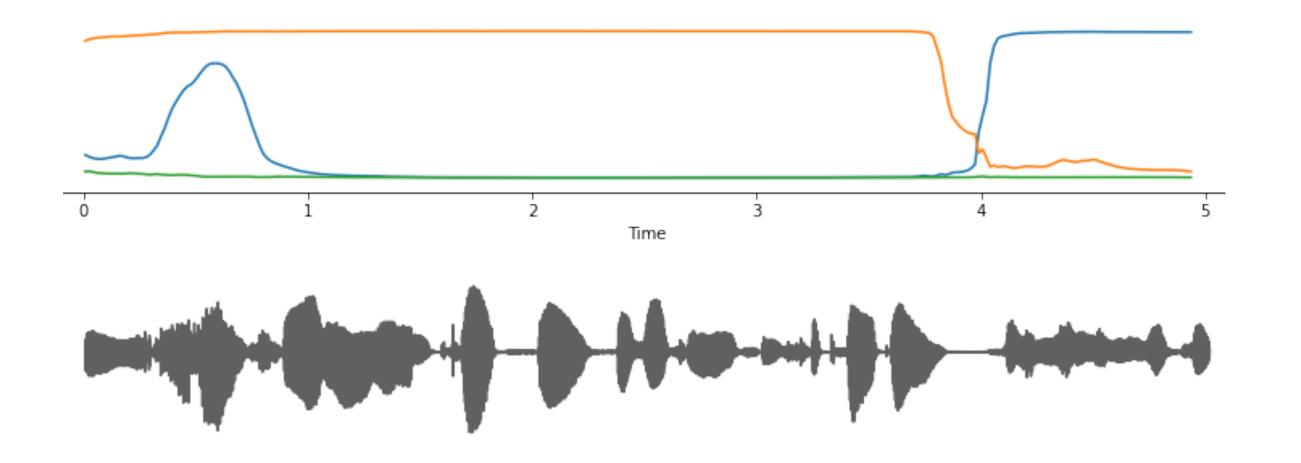
Self-supervised feature extraction wav2vec 2.0 vs HuBERT vs WavLM

Diarization error rate on DIHARD



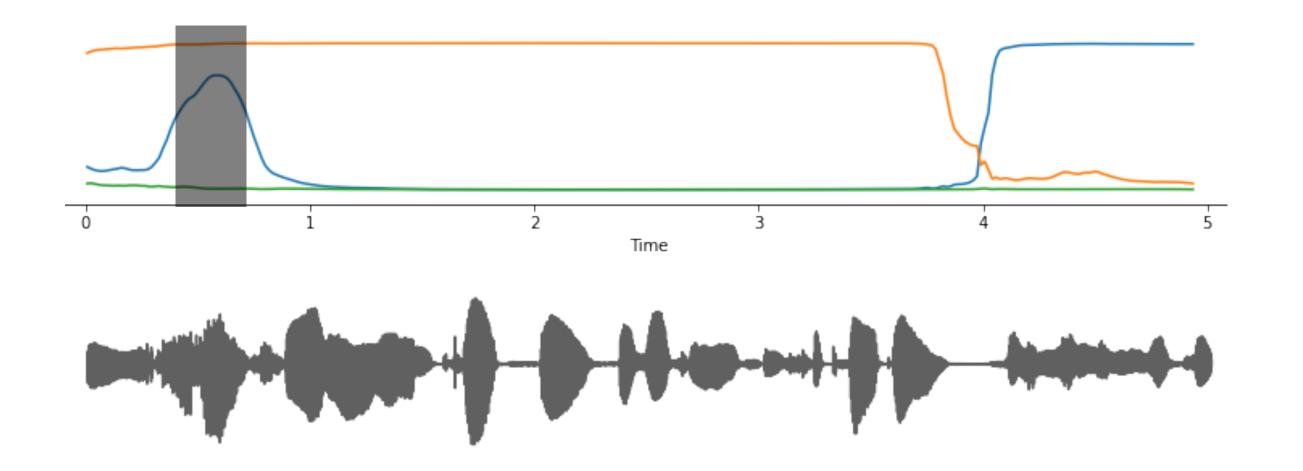


Speaker embedding from SpeechBrain ECAPA-TDNN to WeSpeaker ResNet34



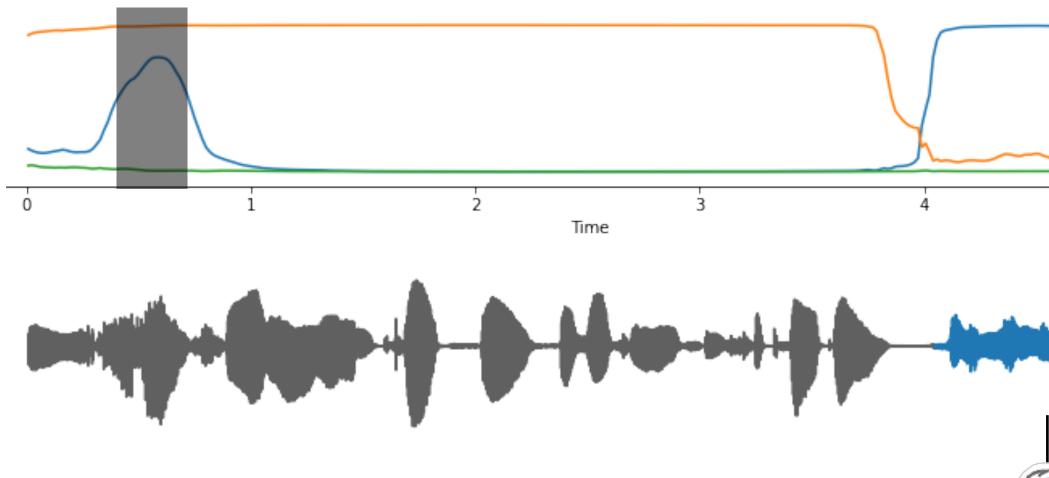










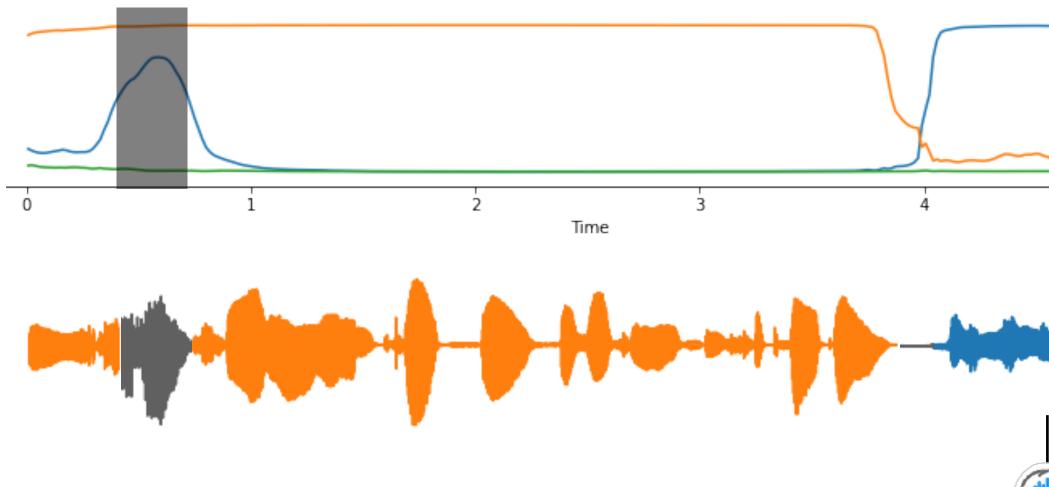










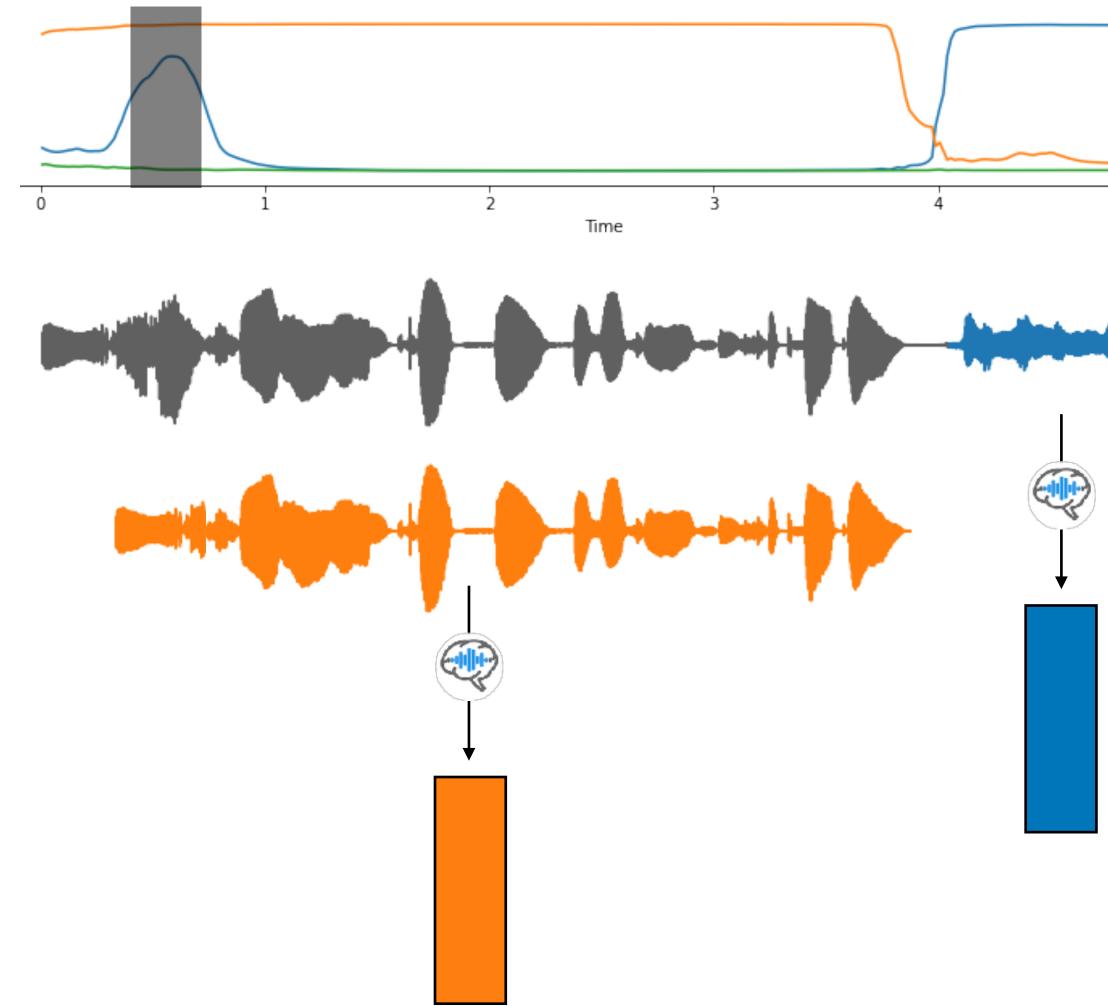






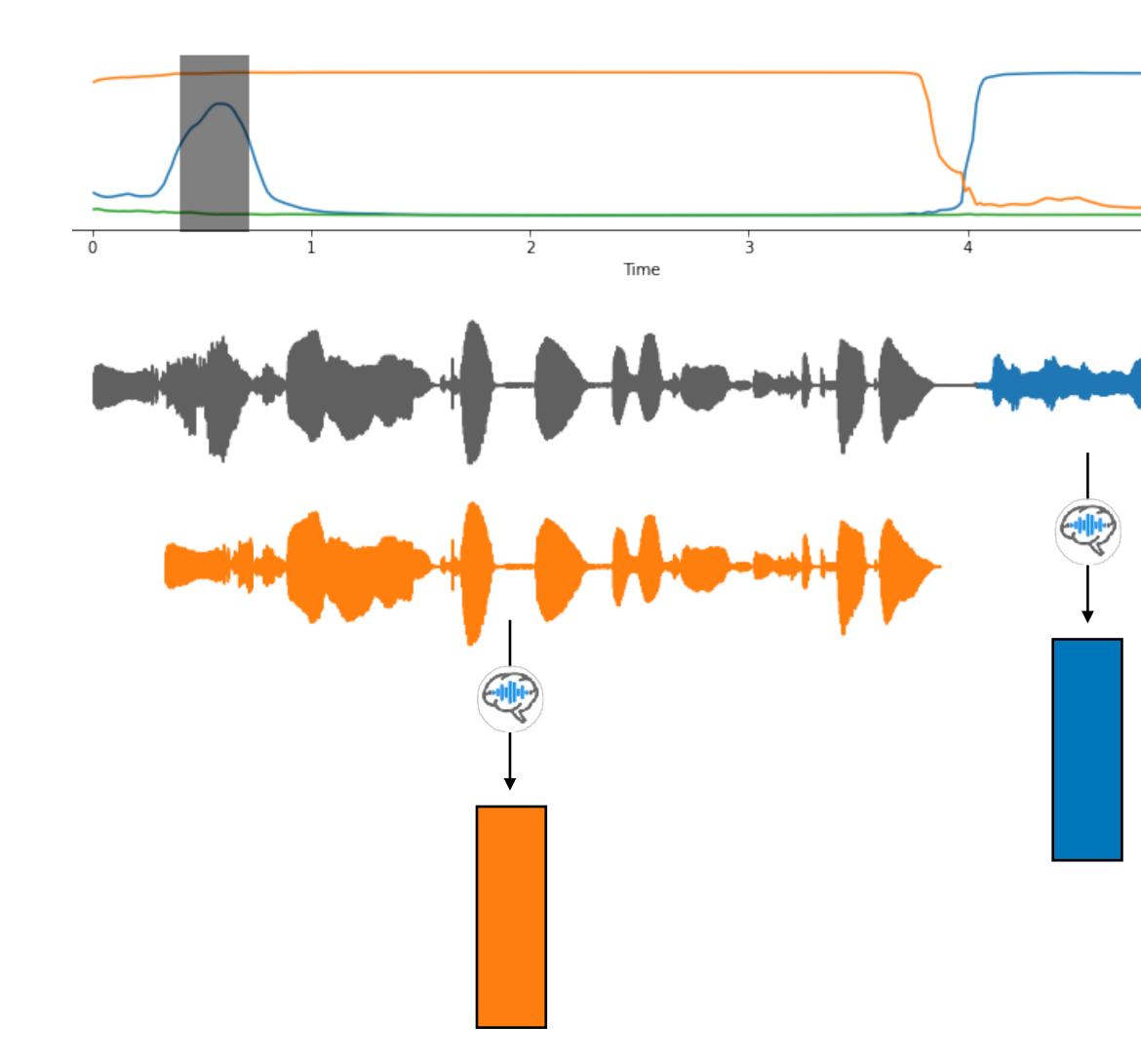








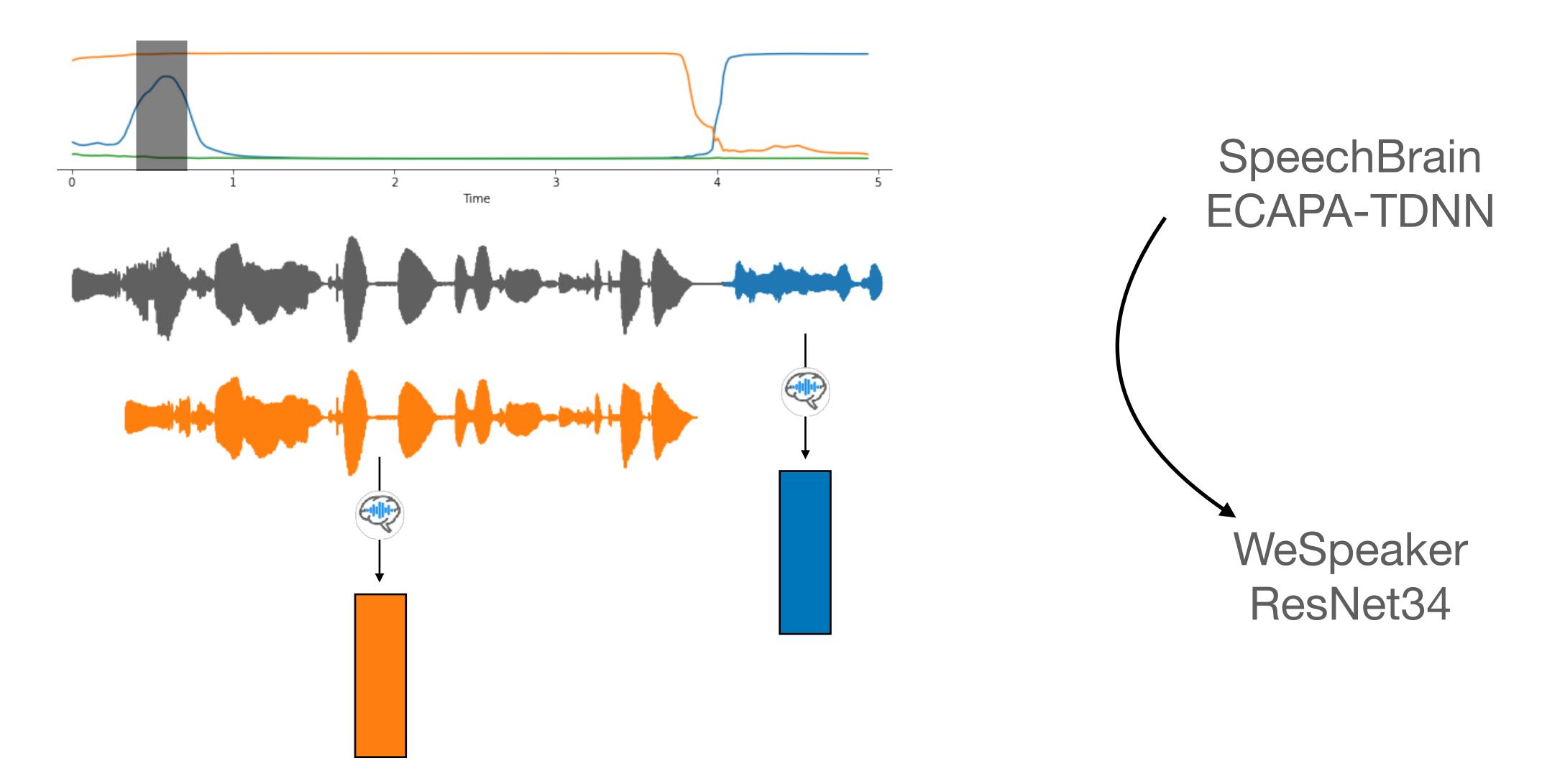




SpeechBrain ECAPA-TDNN

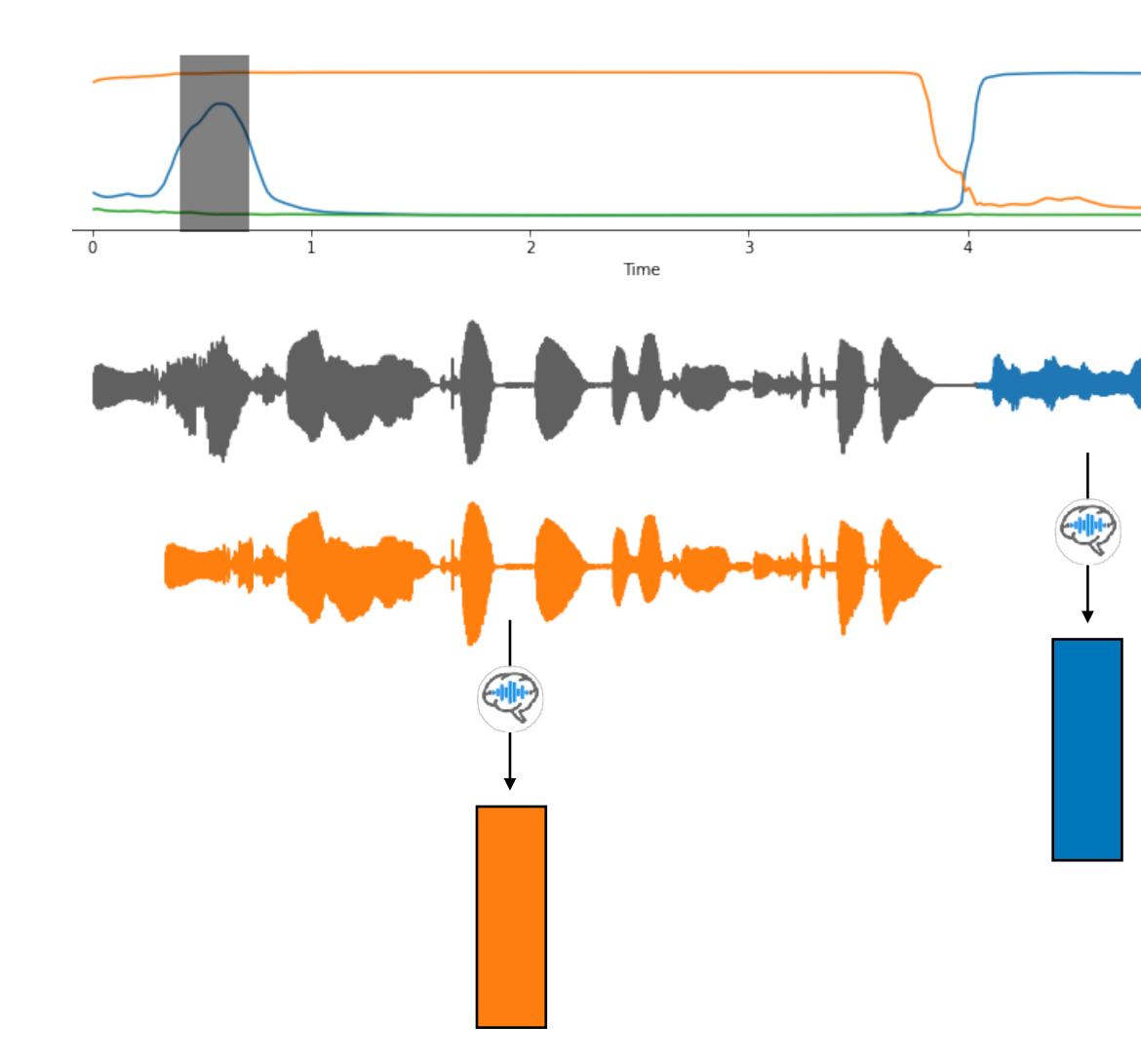


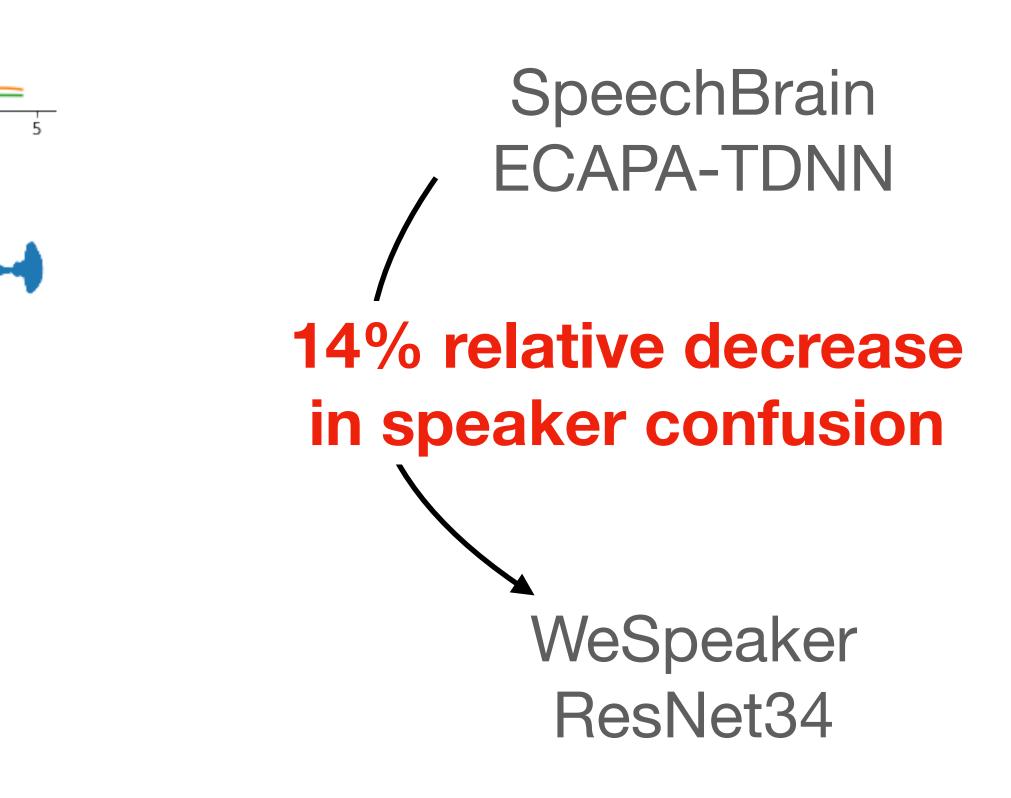






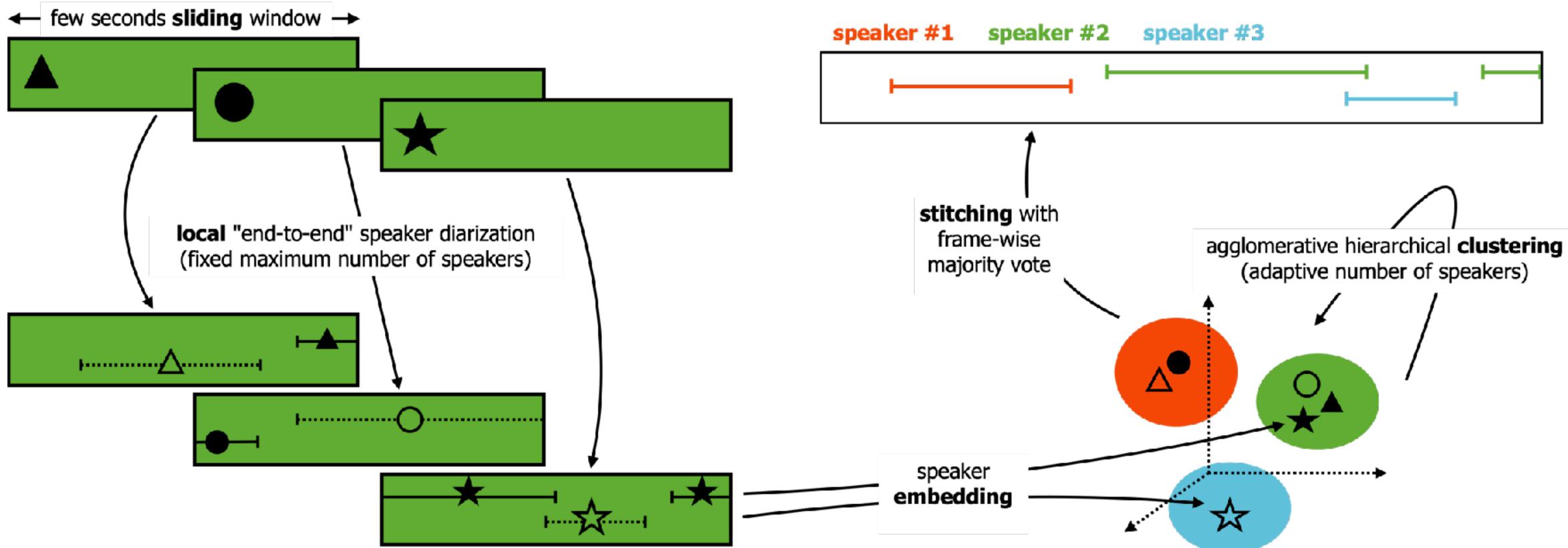






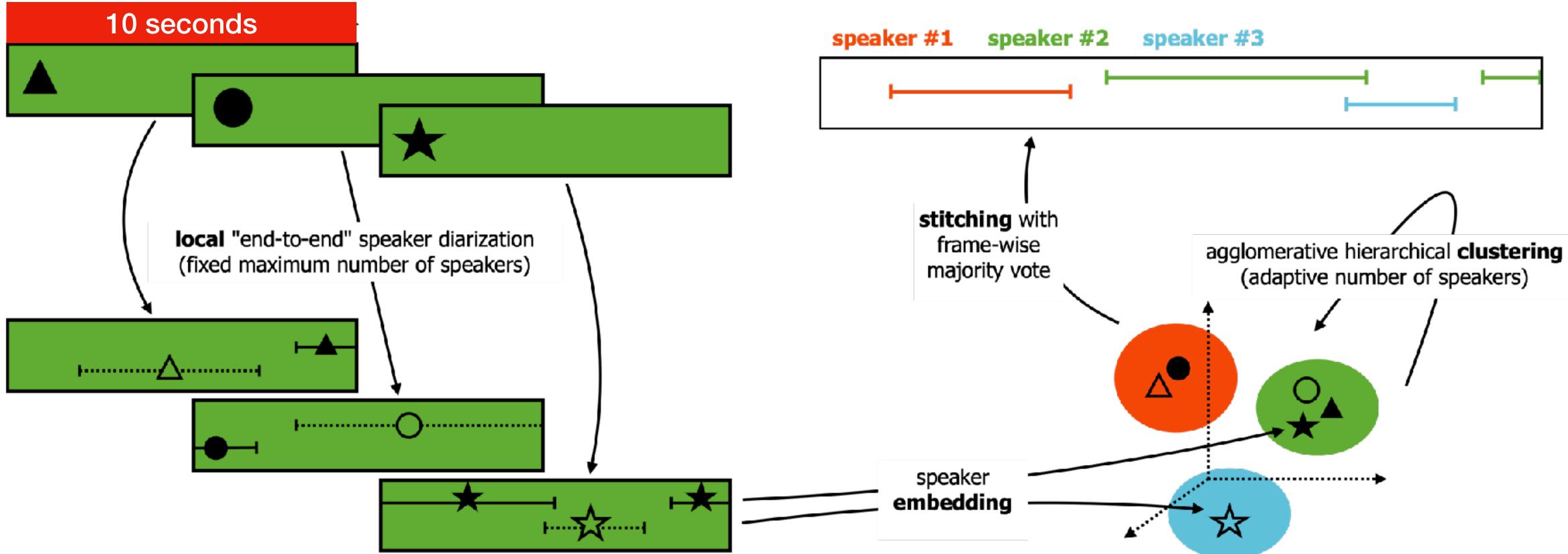






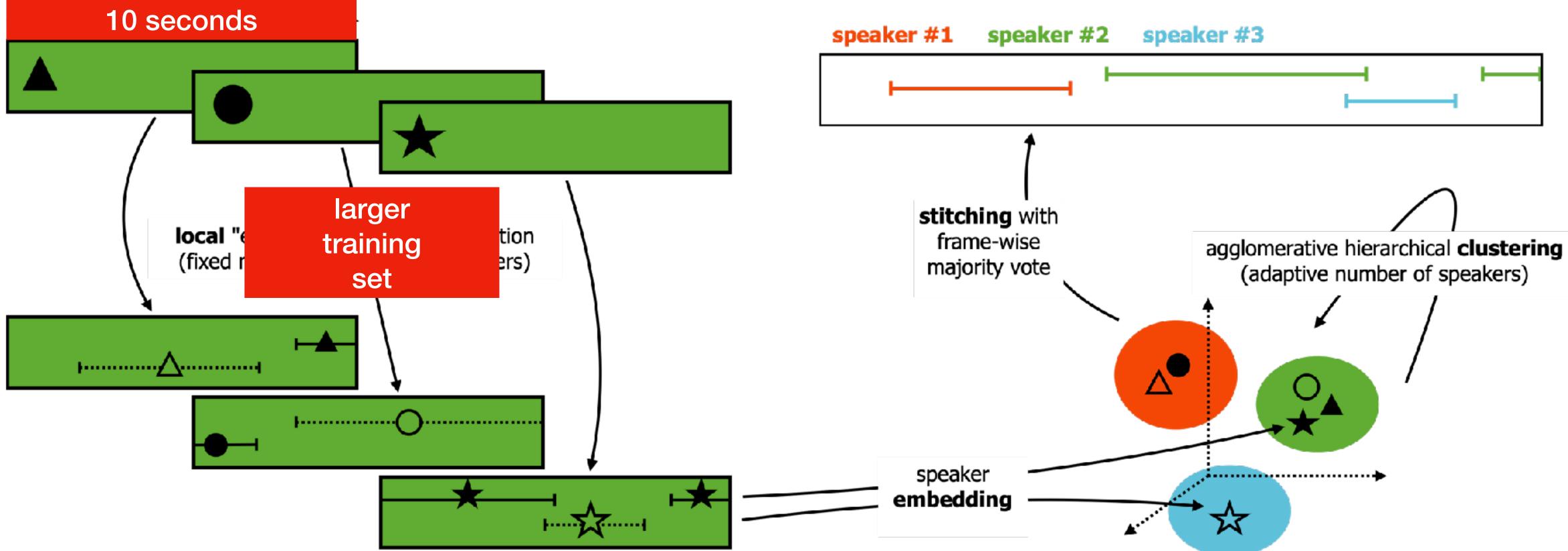






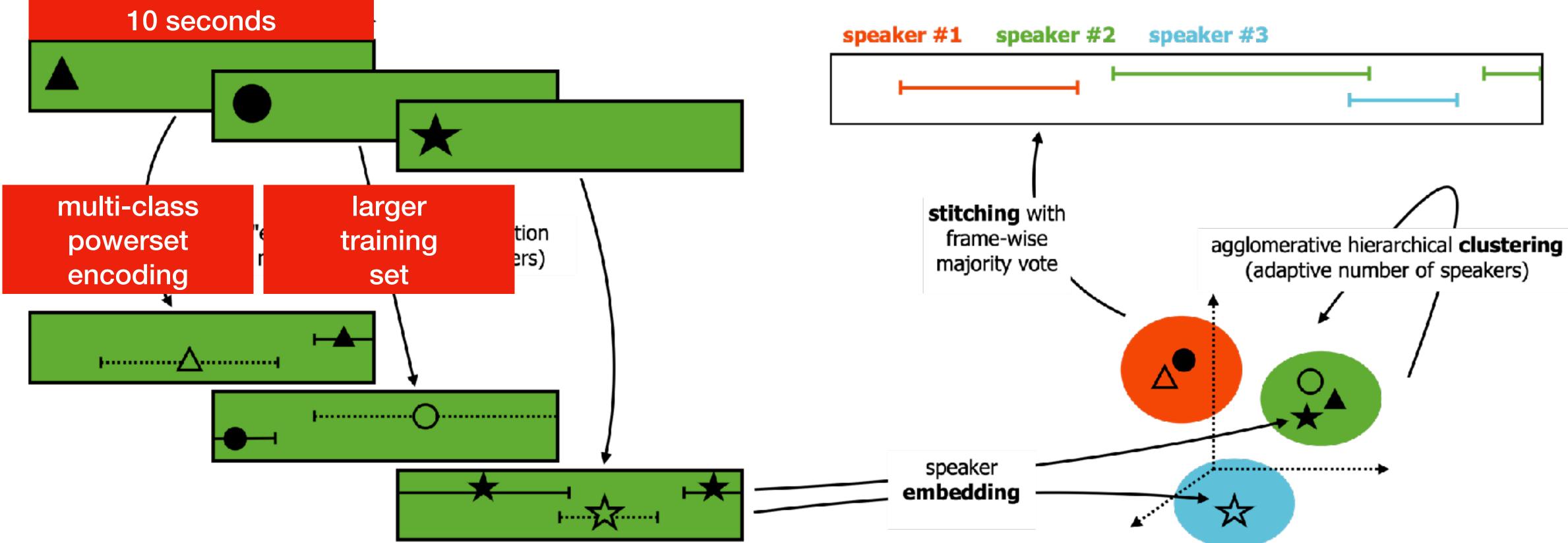






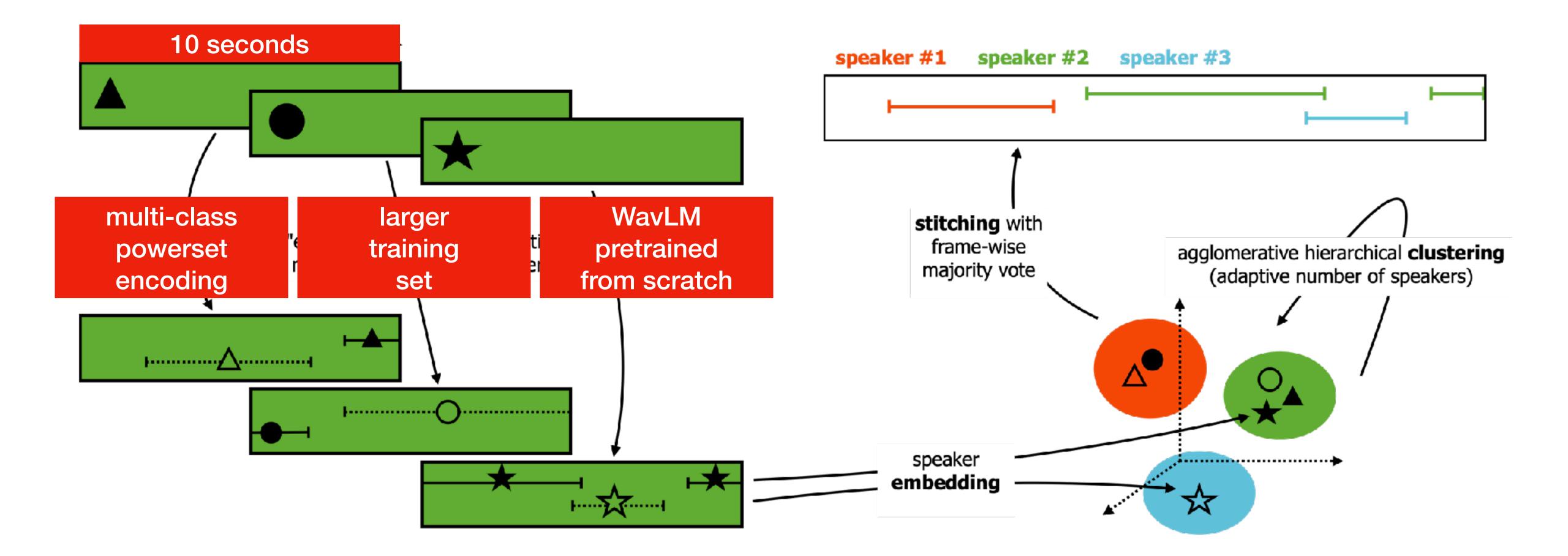




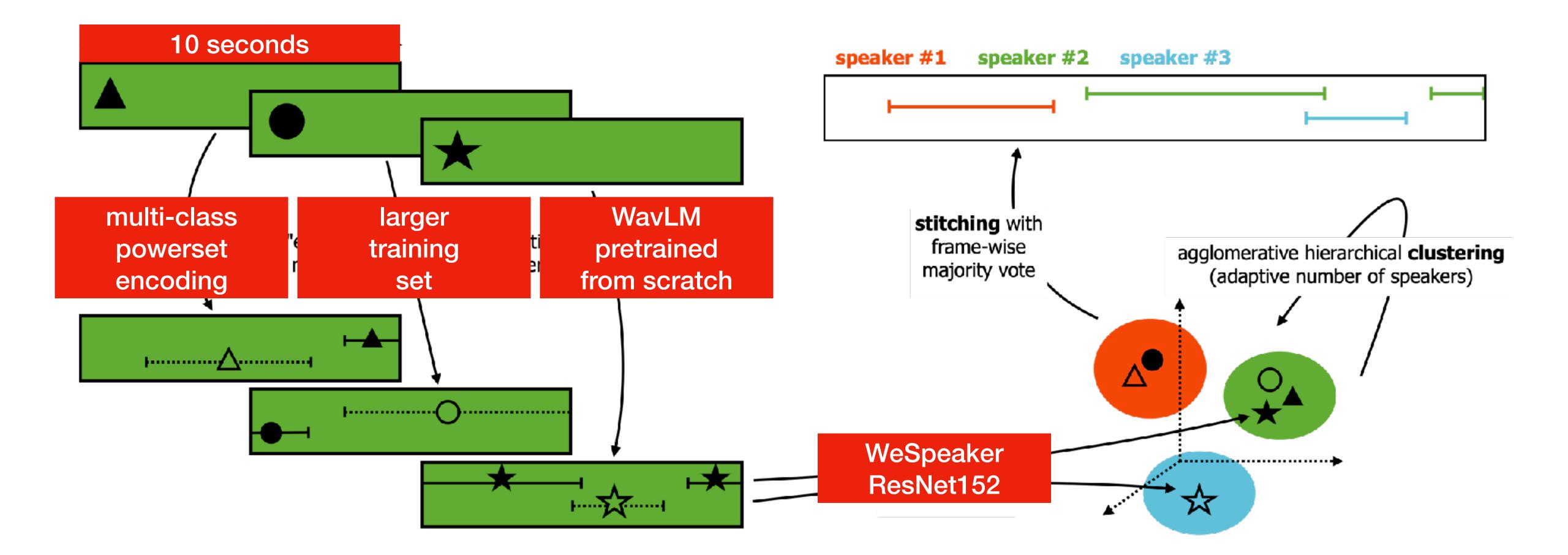














CNrs

Hewlett Packard Enterprise

And and the Association of the A

Acknowledgments

GENCI

"Jean Zay" supercomputer





Hiring!

20th-24th August 2023 - Dublin, Ireland

pyannote.audio 2.1 speaker diarization pipeline: principle, benchmark, and recipe *Hervé Bredin*

Powerset multi-class cross entropy loss for neural speaker diarization *Alexis Plaquet & Hervé Bredin*



