

E9 261

31-03-2016

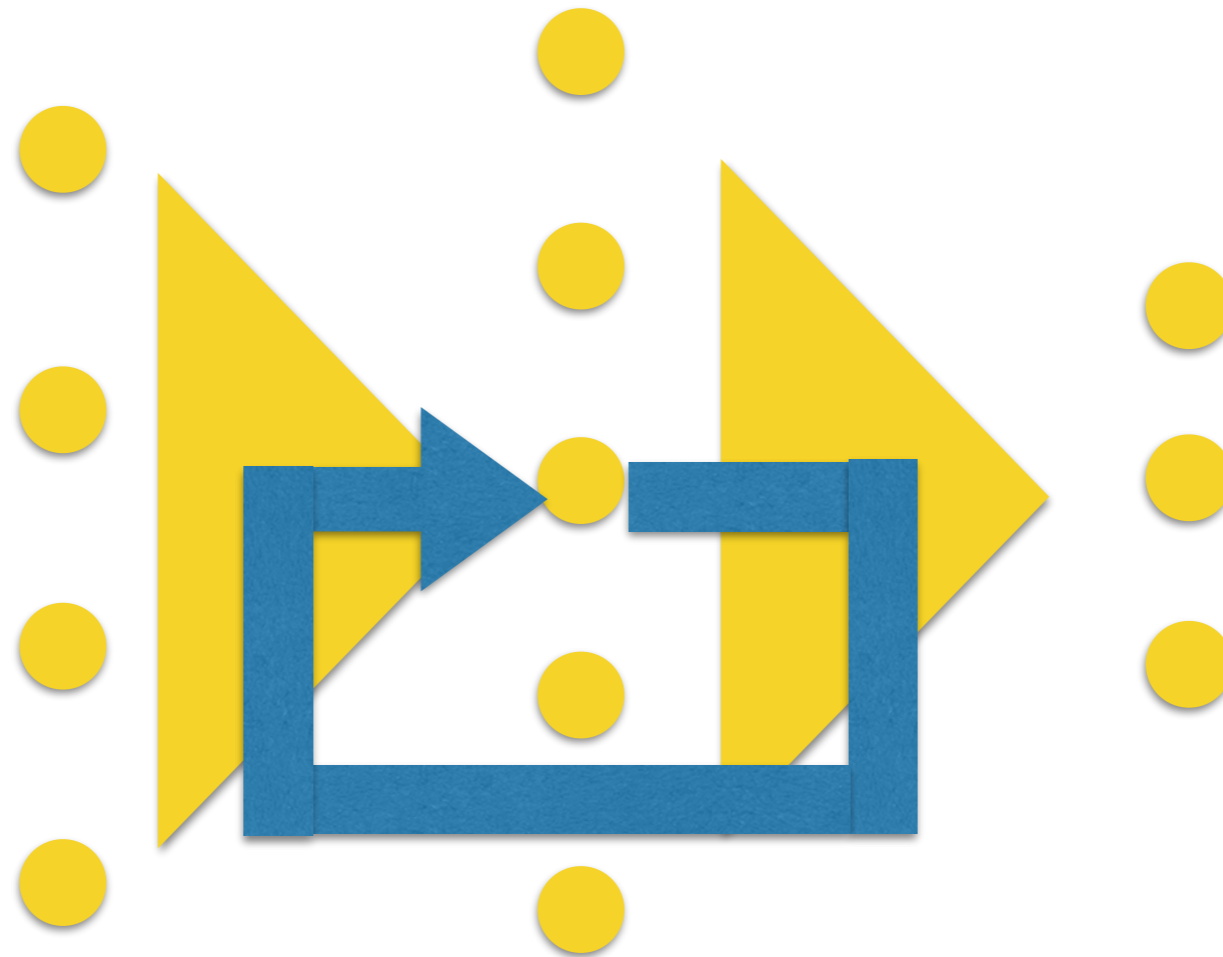
# DNNs for ASR

- Pre-training
  - Restricted Boltzmann Machine (DBN)
  - Denoising Autoencoder
  - Discriminative Pretraining
- Using DNNs for HMM decoding/likelihood computation (Hybrid HMM-ANN models)

# Recap

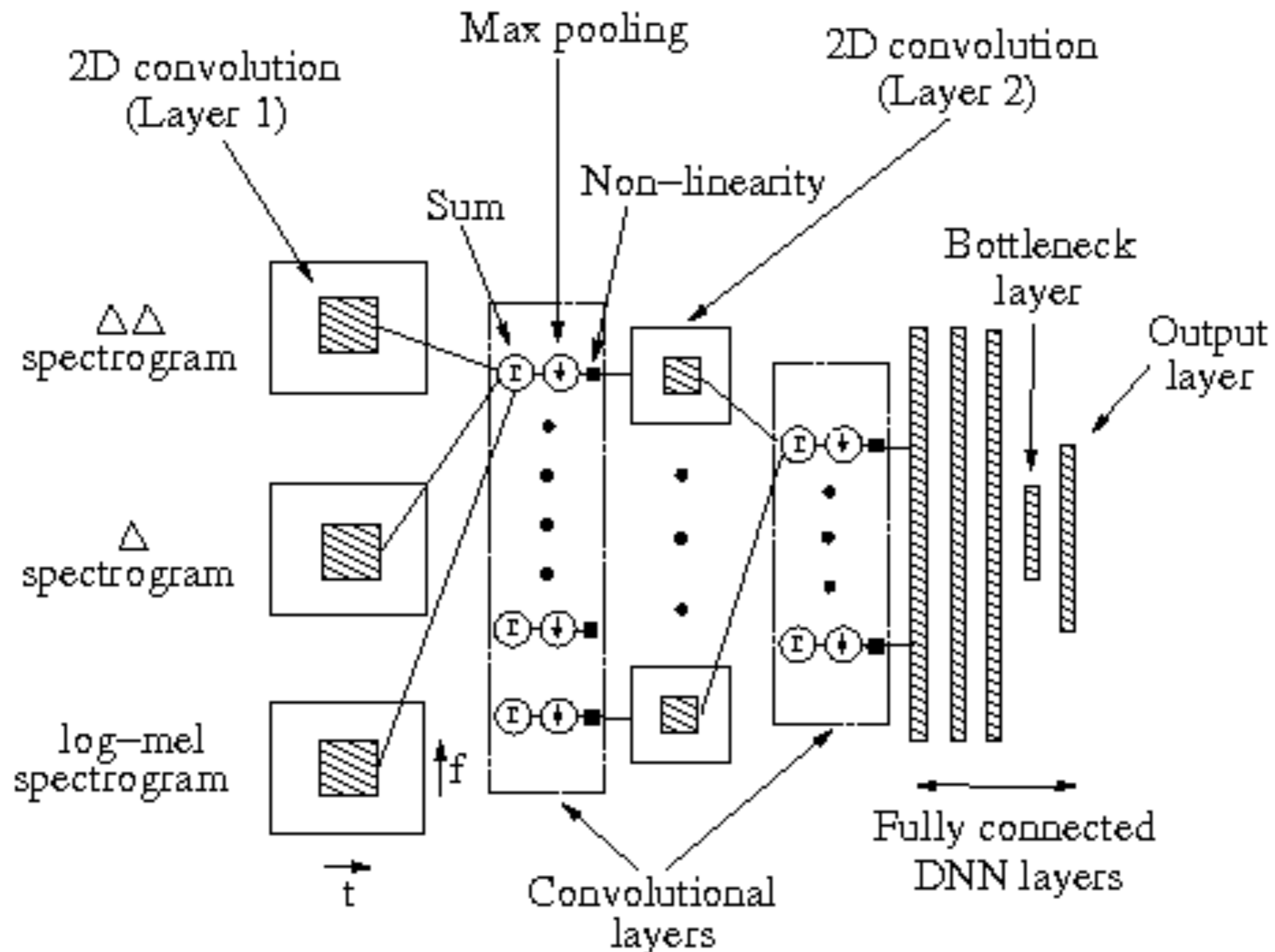
- Pre-training
  - Restricted Boltzmann Machine (DBN)
  - Denoising Autoencoder
  - Discriminative Pretraining
- Using DNNs for HMM decoding/likelihood computation (Hybrid HMM-ANN models)
- Language Modeling
  - N-gram

# Other Networks - RNN

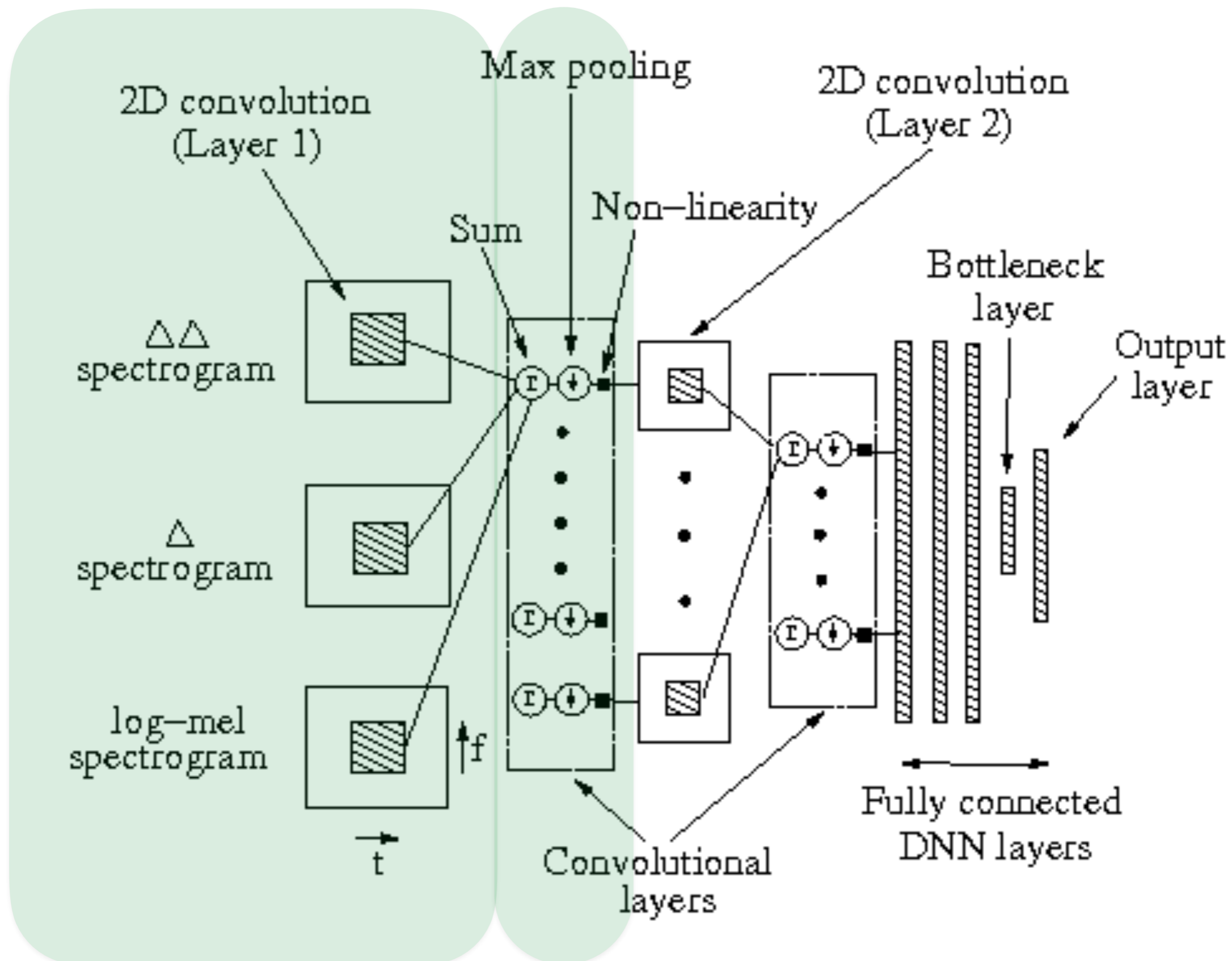


- Feedback from the previous hidden layer state
- Back Propagation through time

# Convolutional Neural Network



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