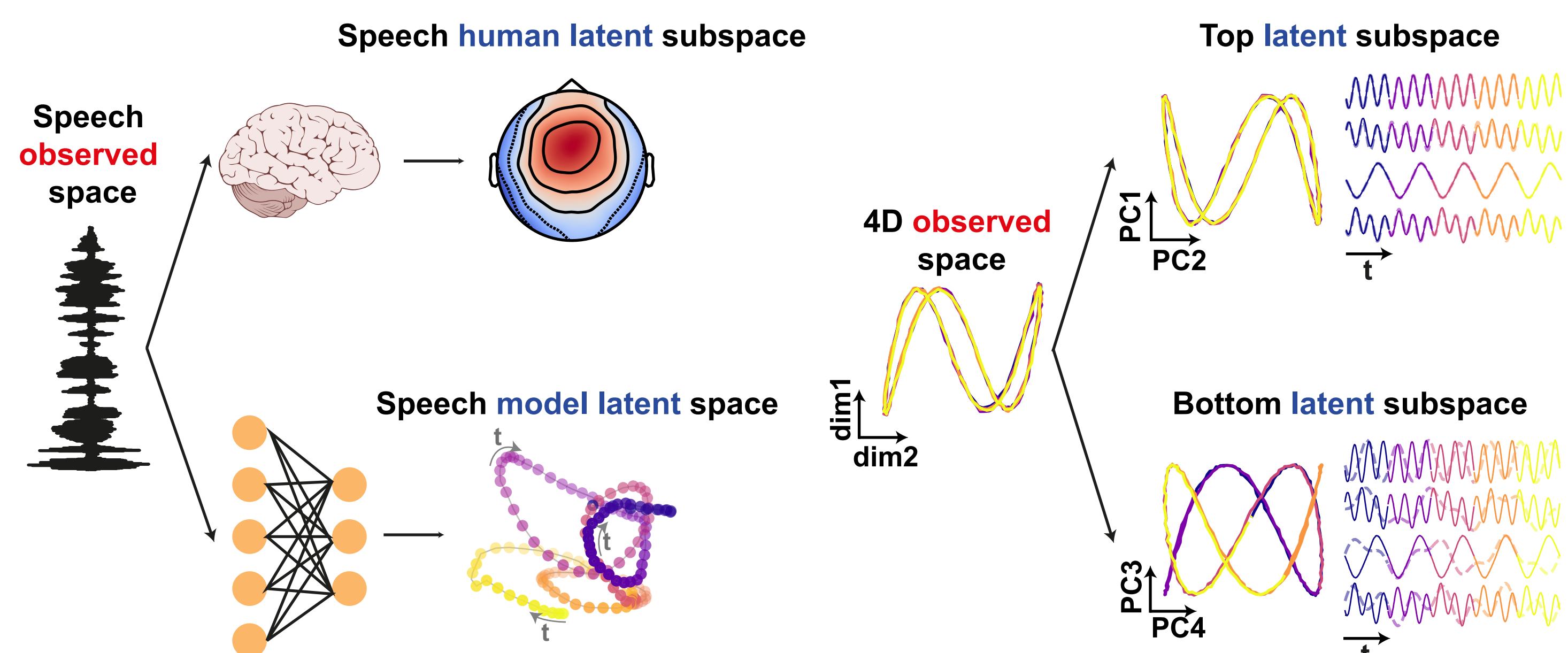


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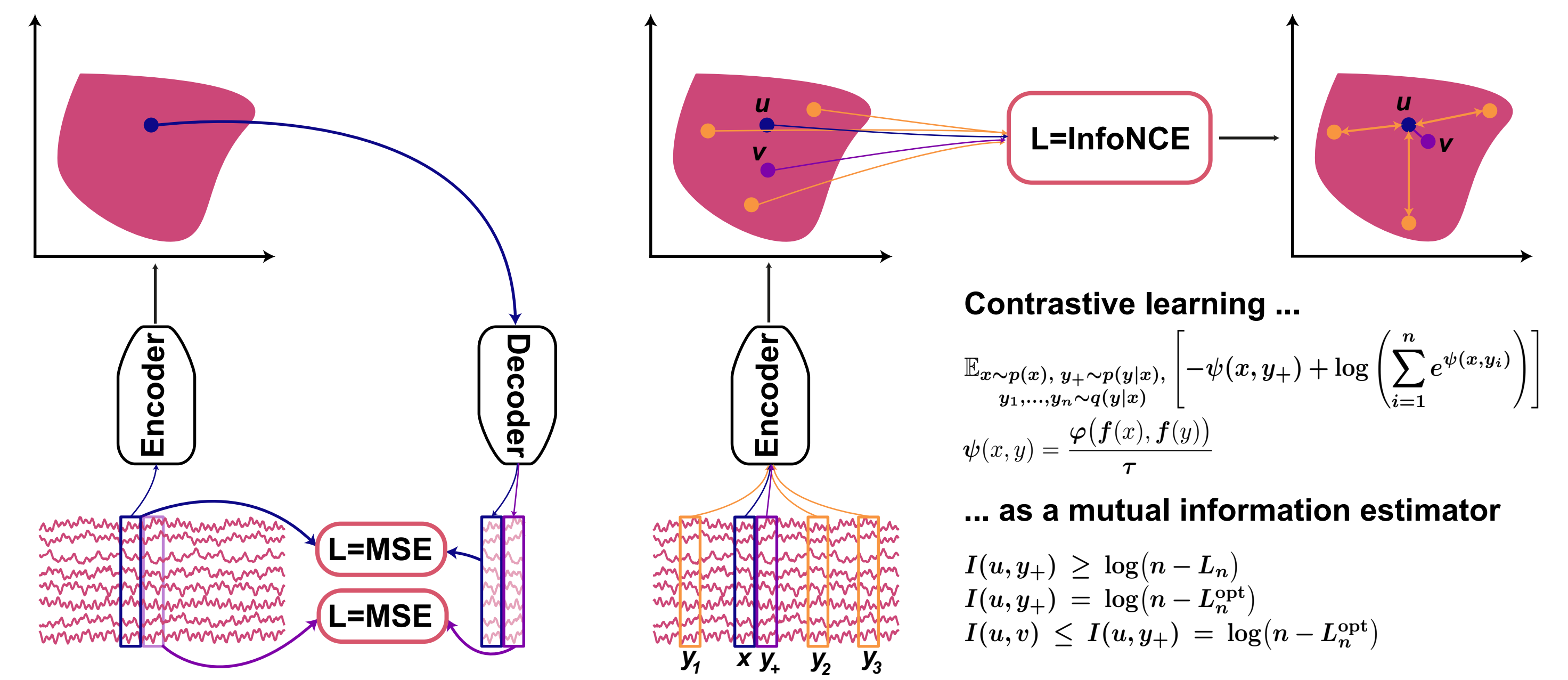
Observed vs latent space

Observed = immediately accessible **Latent** = internal, abstract



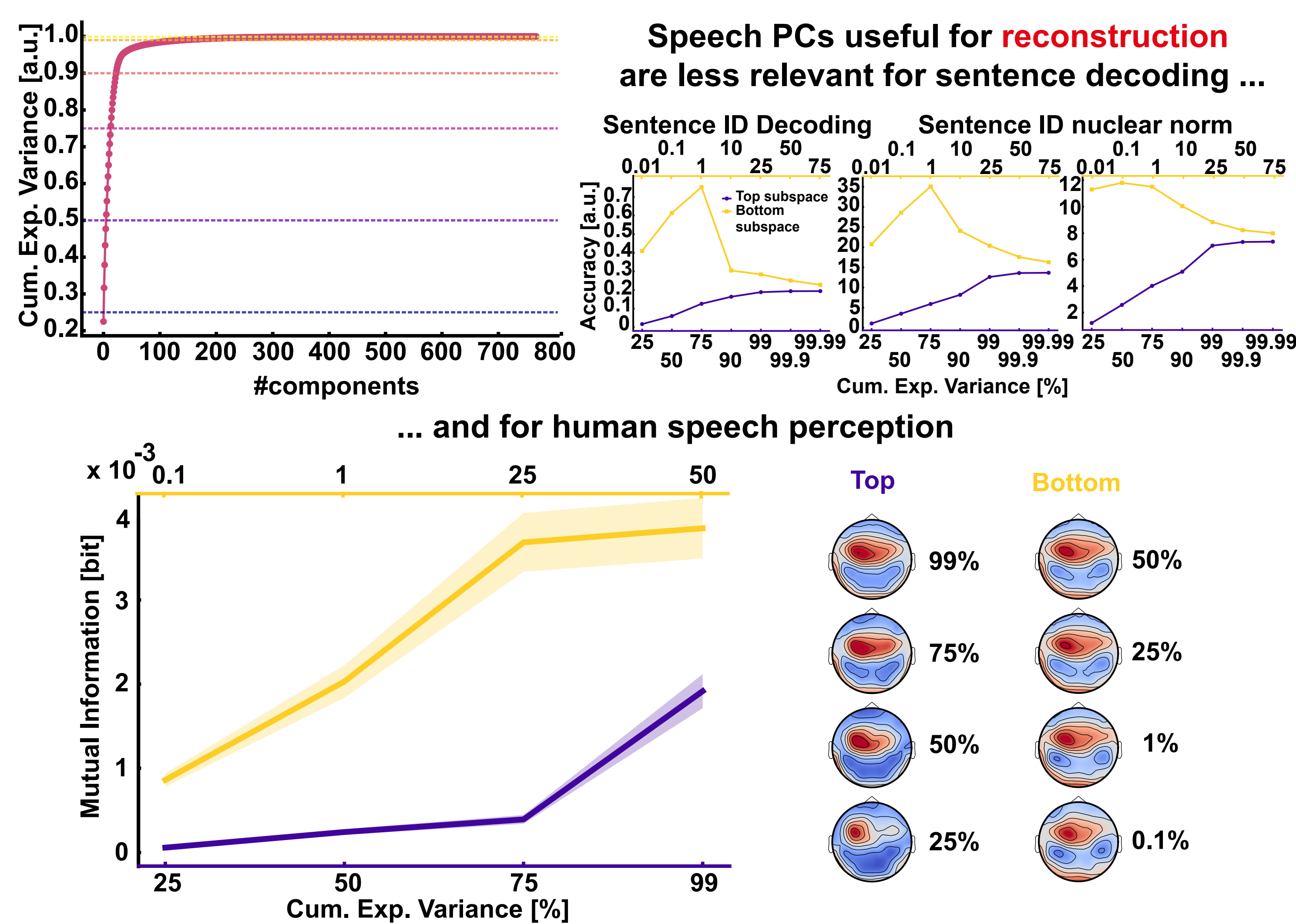
■ Autoencoders — vs — Joint-embedding models

Encoder + Decoder architecture Encoder-only architecture

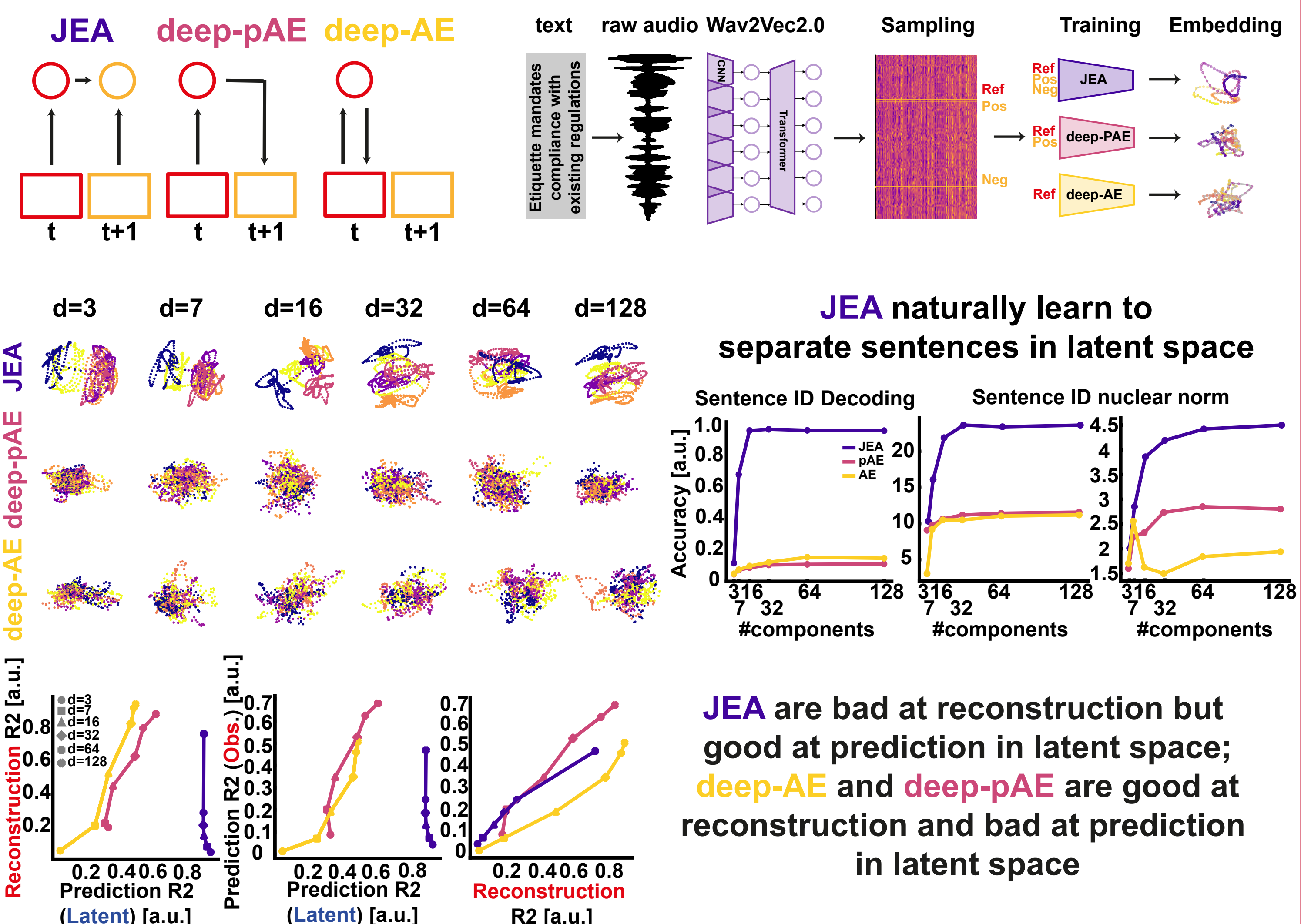


- Speech PCs useful for reconstruction are less relevant for perception

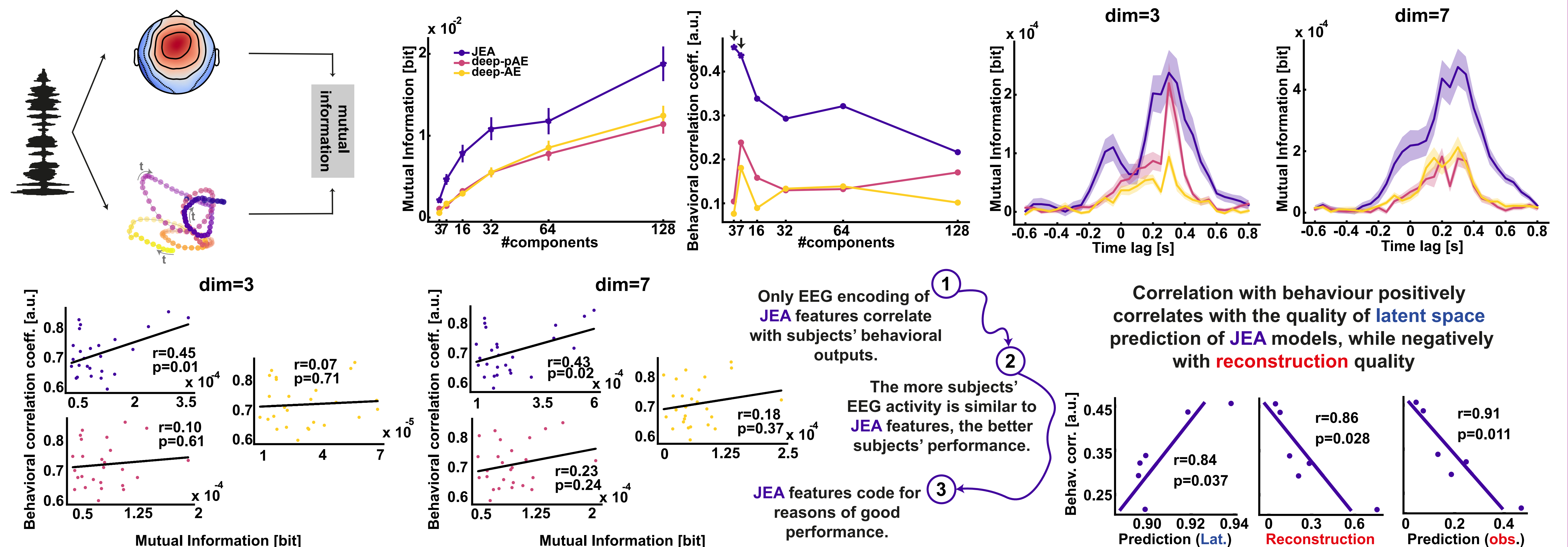
Speech PCs useful for **reconstruction** are less relevant for sentence decoding ...



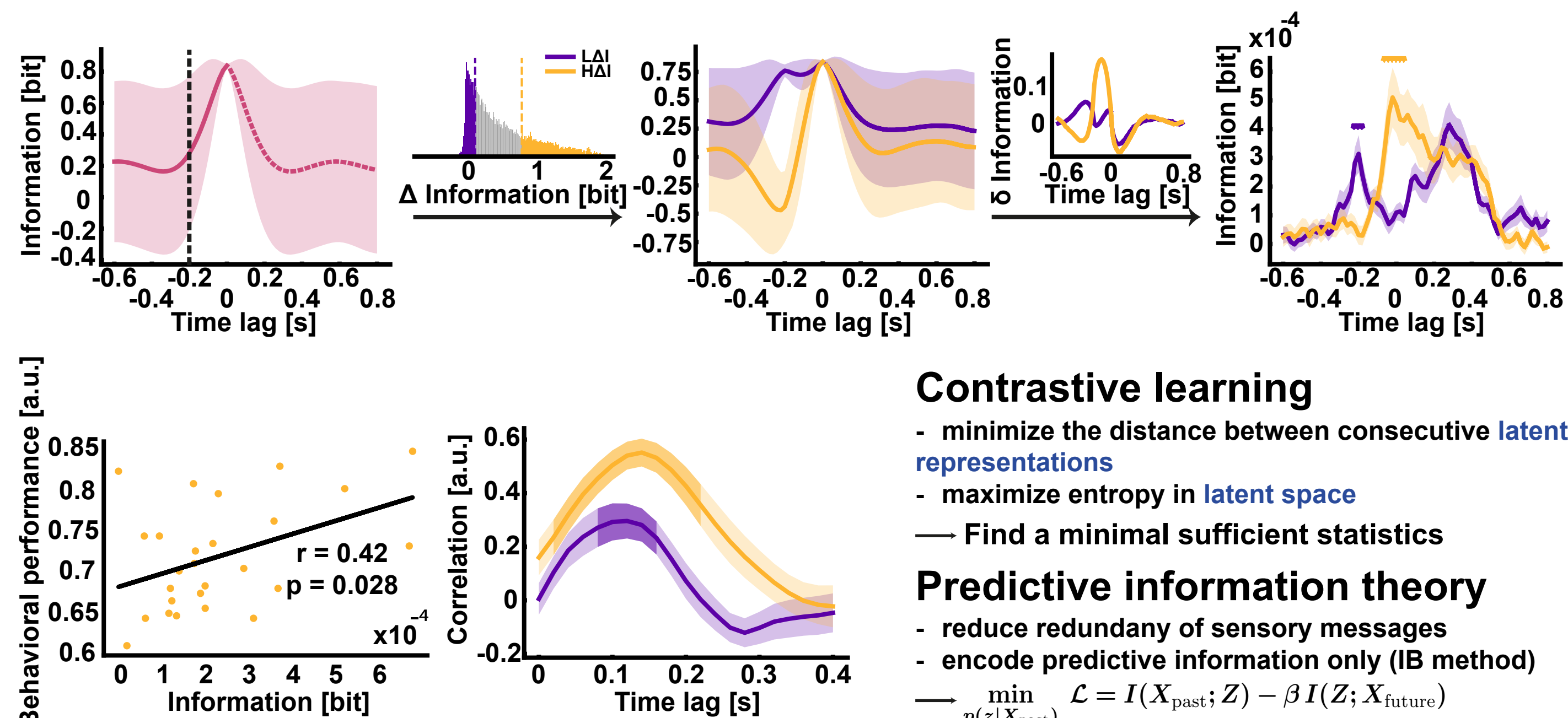
Nonlinear dimensionality reduction of speech features



EEG encoding of reduced speech features



Contrastive learning and predictive information theory



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