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## Speech Signal Processing (SSV)

Examiners	Prof. Dr. Timo Gerkmann
Exam date	08/13/2019
Department	Informatik

- Draw the source filter model. What are the parameters?
- ullet Formula for the filter output. Convolution s(n)=e(n)st h(n)
- What does a voiced excitation look like in time domain and frequency domain?
- What does voiced/unvoiced mean? Examples
- Give the difference equation of the speech production model in time domain. Derive the filter in the z-Domain
- What is LPC used for? Explain the term
- Why is the innovation not part of the LPC prediction formula?
- How many formants are to be expected in a signal with a given sampling rate?
- What is the sampling theorem? Explain
- ullet How many autoregressive coefficients for LPC? 2n+2
- Why the 2n? Why +2?
- What does the amount of quantization noise depend upon?
- Given a continuous sinusoidal signal. What would the quantizer output look like?
- Why do we use non-uniform quantization?
- What is adaptive quantization? Give a short explanation

 $technical\_info) \cdot Problems? \textit{(/base/problems)} \cdot Deutsch \cdot English \cdot Français$