

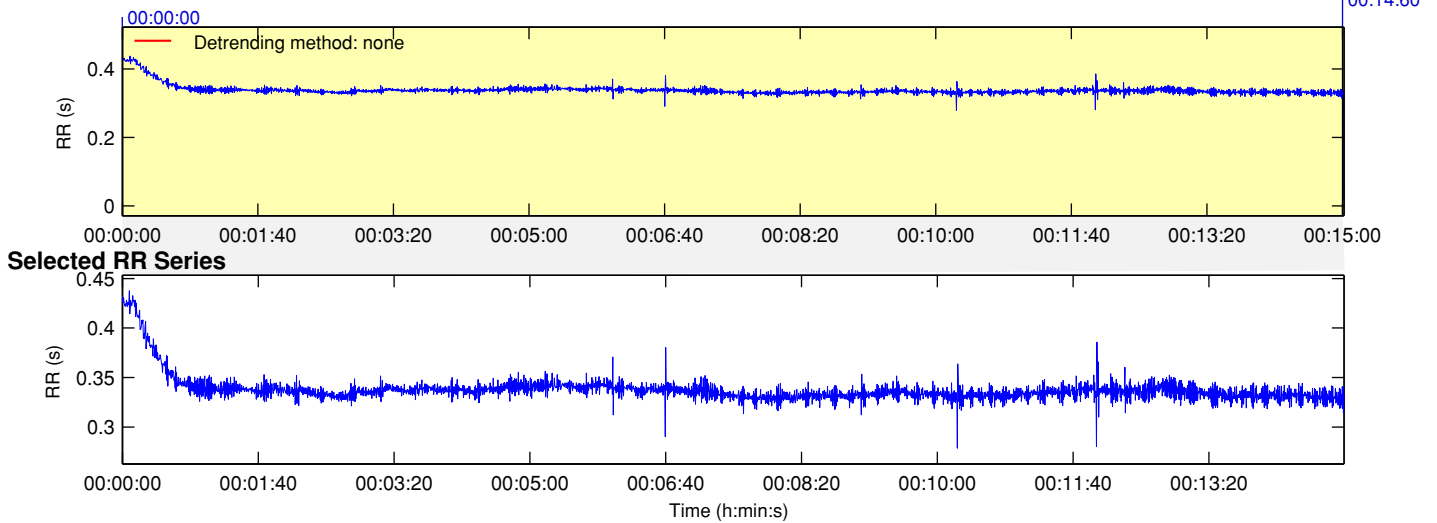
# HRV Analysis Results

ecg-data-4.csv - xx/xx/xx - xx:xx:xx

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## RR Interval Time Series

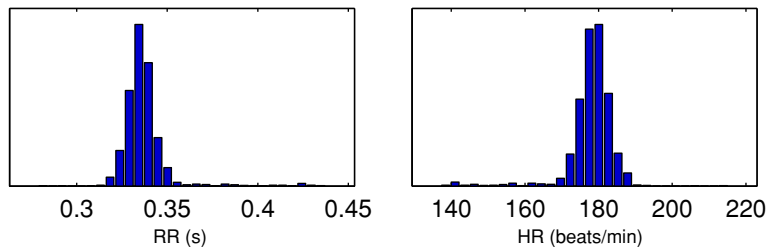
## Results for a single sample



## Time-Domain Results

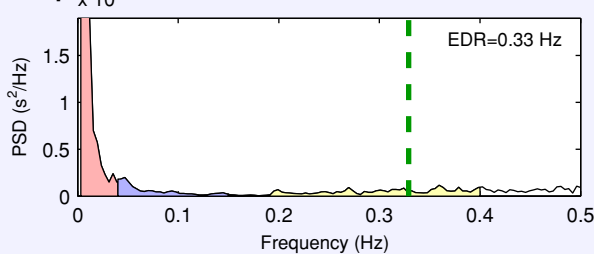
Variable	Units	Value
Mean RR*	(ms)	337.4
STD RR (SDNN)	(ms)	13.5
Mean HR*	(1/min)	178.09
STD HR	(1/min)	6.29
RMSSD	(ms)	11.3
NN50	(count)	6
pNN50	(%)	0.2
RR triangular index		2.390
TINN	(ms)	110.0

## Distributions\*



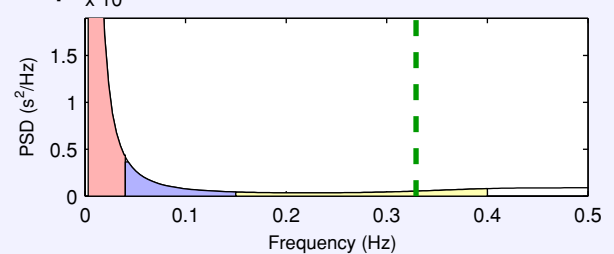
## Frequency-Domain Results

### FFT spectrum (Welch's periodogram: 256 s window with 50% overlap)



Frequency Band	Peak (Hz)	Power ( $ms^2$ )	Power (%)	Power (n.u.)
VLF (0.0033–0.04 Hz)	0.0000	6	41.4	
LF (0.04–0.15 Hz)	0.0469	1	3.8	6.4
HF (0.15–0.4 Hz)	0.3594	1	6.9	11.7
Total		16		
LF/HF		0.549		

### AR Spectrum (AR model order = 16, not factorized)

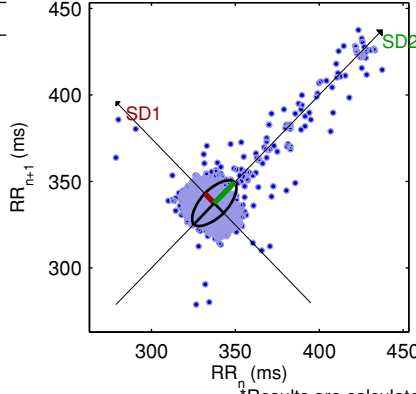


Frequency Band	Peak (Hz)	Power ( $ms^2$ )	Power (%)	Power (n.u.)
VLF (0.0033–0.04 Hz)	0.0000	17	6.1	
LF (0.04–0.15 Hz)	0.0430	1	0.5	0.5
HF (0.15–0.4 Hz)	0.3984	1	0.4	0.4
Total		281		
LF/HF		1.158		

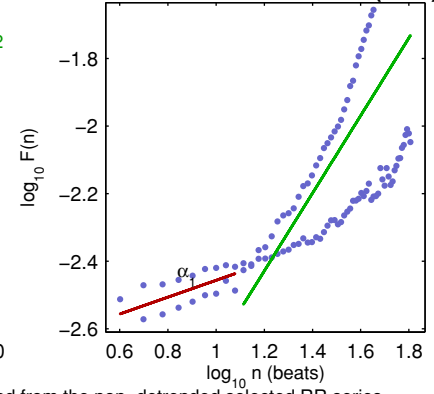
## Nonlinear Results

Variable	Units	Value
<b>Poincare plot</b>		
SD1	(ms)	8.0
SD2	(ms)	17.2
<b>Recurrence plot</b>		
Mean line length (Lmean)	(beats)	200.24
Max line length (Lmax)	(beats)	566
Recurrence rate (REC)	(%)	59.06
Determinism (DET)	(%)	98.94
Shannon Entropy (ShanEn)		4.737
<b>Other</b>		
Approximate entropy (ApEn)		1.177
Sample entropy (SampEn)		1.333
Detrended fluctuations (DFA): $\alpha_1$		0.250
Detrended fluctuations (DFA): $\alpha_2$		1.150
Correlation dimension (D2)		0.048
Multiscale entropy (MSE)		0.321 – 1.333

## Poincare Plot



## Detrended fluctuations (DFA)



\*Results are calculated from the non-detrended selected RR series.