

t_1	37.5	38.2	38.3	38.6	38.2	37.6	37.2	38.9	38.6
t_2	37.7	38.3	38.5	38.6	38.3	37.7	37.5	38.7	38.5
Δ	-0.2	-0.1	-0.2	0.0	-0.1	-0.1	0.2	0.2	0.1

H_0 : mezi teplotami na obou místech není rozdíl

$\Delta = t_1 - t_2$ $\alpha = 5\%$ $t = \frac{\bar{\Delta} - 0}{\sqrt{S_x^2} \cdot \sqrt{n}}$
 $\bar{\Delta} = -0.0667$ $S_x^2 = 0.02$

$t = \frac{-0.0667}{0.1414} \cdot \sqrt{9}$ $H_0: E_x = 0$
 $= -1.42$ $|t| > t_{(n-1)}(1 - \frac{\alpha}{2})$

$|t| = 1.42 < 2.31$ NEZAM.

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$n = 5$

0.8	1	0.6	1.4	0.3	%
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$\alpha = 5\%$ $\chi^2_{(n-1)}(1 - \alpha) = 9.49$
 0.1%

$H_0: \sigma \leq 0.1\%$ $t = \frac{(n-1)S_x^2}{\sigma^2} = \frac{4 \cdot 0.008}{0.1^2} = 35.2$

$S_x^2 = \frac{1}{n-1} \sum (x_i - \bar{x})^2 = 0.008$ $t > 9.49$
 $35.2 > 9.49$
 ZAM.

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$$\begin{aligned}
 n &= 21 & t &= \frac{(n-1) \cdot S_x^2}{\sigma_x^2} = \\
 S_x &= 1,5 \text{ mV} & &= \frac{20 \cdot 225}{1} = \\
 \alpha &= 1\% & &= 450 \\
 \sigma_x &= 1 \text{ mV} & & \\
 P\{X \leq \sigma_x^2\} & & t &> \chi^2_{(n-1)}(1-\alpha) = 37,57 \\
 \frac{E\{t\}}{D\{t\}} &= c & & \text{Zamítáme!} \\
 & & & \bar{\Phi}, t_{(n-1)}
 \end{aligned}$$

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