Ondrej Ondrycis (cik. 8, cv. 9)

Hodnote, pad kteron bude 52 s 90% spol. -> hledam prawstramy interval spolehlivosti pro rozptil 02:

$$\left(0; \frac{(n-1)s^{2}}{\chi_{q}^{2}(n-1)}\right) \qquad 1-10 = 0, 9 \implies 9 = 0, 1$$

$$\text{Shipping step. whosh } n = 15: \chi_{0,1}^{2}(14) = 7,790$$

$$S^{2} = \frac{1}{n-1} \left(\sum_{i=1}^{n} x_{i}^{2} - n \overline{x}^{2} \right) \qquad \overline{x} = \frac{12.8 + 20.1 + ... + 14.7}{15} = 14.707 \qquad \overline{x}^{2} = 216.296$$

$$s^{2} = \frac{1}{14} \left(\sum_{i=1}^{n} x_{i}^{2} - 15.216(296) = \frac{1}{14} \cdot (3336)78 - 3244(44) = 6,596 \right)$$

Internal spokehliwsti:
$$(0; \frac{92,34}{7,79}) = (0; 11,854)$$

Rozptyl měřené vel. bude s 90% spolehlinstí pod 11,854.