unodel dat:
$$x_i = \mu + A \cdot i + w$$
; $\{cde \ w_i \sim N(0_i G_i^2), i = 1, \dots, N \}$

log-verohodnostail funce:
$$(x_i - \mu - A_i)^2 - \frac{1}{2} \log_4 (2\pi G^2)$$

 $\mathcal{L}\left(\mu_{1} \, A\left(X\right) = -\sum_{i=1}^{N} \frac{\left(X_{i} - \mu_{i} - A_{i}^{i}\right)^{2}}{2\sigma^{2}} - \frac{1}{2} \, \log_{3}\left(2\pi\sigma^{2}\right)$ derivare & pro odvozemi MLE:

erivare & pro odvozeni 112 E:
$$\frac{1}{N} \frac{2N}{2N} = \frac{1}{N} \frac{2}{N} \frac{1}{N} - \frac{1}{N} \frac{1}{N} \frac{2}{N} - \frac{1}{N} \frac{1}{N} \frac{2}{N} - \frac{1}{N} \frac{1}{N} \frac{1}{N} - \frac{1}{N} \frac{1}{N} \frac{$$

pousijeure: 1)
$$\frac{4}{h}\sum_{i=1}^{N} i = \frac{N+1}{2}$$

2)
$$\frac{1}{\nu} \sum_{i=1}^{N} i^2 = \frac{1}{6} (2N+1) (N+1)$$

$$\frac{d}{d} \sum_{i=1}^{N} x_{i,i} - \left(\frac{d}{d} \sum_{i=1}^{N} x_{i,i} - \hat{A} \frac{M+1}{2} \right) \frac{N+1}{2} - \hat{A} \frac{d}{d} (2N+1) (N+1) = 0$$

$$\frac{d}{d} \sum_{i=1}^{N} (\lambda x_{i,i} - \frac{N+1}{2} x_{i,i}) = \left(\frac{d}{d} (2N+1) (N+1) - (N+1)^{2} \cdot \frac{d}{d} \right) \hat{A}$$

$$\frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2} x_{i}) = \left(\frac{1}{6} (2N+1) (N+1) - (N+1) \cdot \frac{1}{4} \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{4} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (2N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{1}{42} \left(N+1 \right) \left(2 (2N+1) - 3 (2N+1) \right) + \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_{i} = \frac{d}{d} \sum_{i=1}^{M} (\lambda x_{i} - \frac{N+1}{2}) x_$$

$$A = \frac{12}{N(N^2-4)} \sum_{i=1}^{N} \left(\lambda_i - \frac{N+1}{2} \right) \chi_i$$
po dosczewi A do λ_i : $\left(\frac{\lambda_i}{\lambda_i} - \frac{k}{N(N-1)} \sum_{i=1}^{N} \left(\frac{2N+1}{2} - \lambda_i \right) \chi_i \right)$