```
Cb-a ML-oyenex:
                                    1. Hearman-e:
                                                                                  g(O) Me = g(Oni) + rnagnoù g(-)
                             Noumer: (P, -P) ML = PAML - P2 ML
                                2. Alunn-e:
een y L cyry-m egunerb. max
7 L'''d
Oor. znar. borb-u ne zahueum om napan-b, to npu n + ∞:
                                                                                1. E (Ôm) = 0
                                                                              2. plim \Theta_{ML} = \Theta
                                                                                   3. lim E(\hat{\theta}' - \theta) 2 / 1/2 \in E(\hat{\theta}_{\text{u}} - \theta) 2 + \hat{\theta}' \neq \theta_{\text{u}}
                                                                              4. \ \hat{\Theta} \sim \mathcal{N}(\Theta, Var(\hat{\Theta}))
(N3) \mathbb{P}\{|\mathcal{E}_{n}-\mathcal{E}|\geq \mathcal{E}\}\xrightarrow{n\to\infty} 0 \mathbb{P}\lim_{n\to\infty} (\mathcal{E}_{n}) \mathbb
                                                                   = \mathbb{E}(X_1^2) - \mathbb{E}(X_1)^2 = Var(X_1). \Rightarrow \hat{\mathcal{O}}_{\mu_1}^2 - com. oyenka \mathcal{O}^2
                                                Инорориация Ришера
                                  S(\Theta) := grad S(\Theta)
                              I(\Theta) := Var(S(\Theta)) = E(S^2(\Theta)) = E(-K(\Theta)) - meap. unop. Gum.
                                                                                                                                                                                                                                              E (SST) - в матрицах
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Для примера с кори. распред. и:
          In I(\Theta) = \mathbb{E}(-H) = \begin{cases} \frac{h}{\sigma^2} \\ 0 \end{cases}

Kan oyenim I(\Theta)?
                                                                                                                - Teoperureckas
knowna!
              (1) \hat{I}(\hat{\Theta}) = I(\Theta) |_{\hat{\Theta}}

(2) I_{obs}(\hat{\Theta}) = -H|_{\hat{\Theta}}
     [T:] I(θ). Var(θ) → Id (com bon. yenob. peryn).

— egunurnas mampuna
        \Rightarrow \forall ar (\hat{\Theta}) = I(\Theta)^{-1}
         крописк нет => теор. ппор. Ришера и дисперсия оценки (истинноге)
                    Var(\hat{\Theta}) = \hat{T}(\hat{\Theta})^{-1} — кришки => оценки инор. Ришера и дисперсии оценки
    (NY (mpog.))

\hat{\mathbf{I}}(\hat{\Theta}) = \begin{pmatrix} \frac{n}{\hat{\Theta}^2} & 0 \\ 0 & \frac{dn}{\hat{\Theta}^2} \end{pmatrix} \quad \begin{cases} \hat{Q}^2 \\ \hat{Q} & 0 \end{cases}

\hat{\mathbf{V}}\hat{\mathbf{Q}}\hat{\mathbf{r}}(\hat{\Theta}) = \hat{\mathbf{I}}(\hat{\Theta})^{-1} = \begin{pmatrix} \hat{Q}^2 \\ \hat{Q} & 0 \end{pmatrix} \quad \begin{pmatrix} \hat{Q}^2 \\ \hat{Q} & 0 \end{pmatrix}

MMN
                                                                                                                                                      Var (ô)
  95%-hà CI gu M:

M \in \Gamma \hat{\mu}_{m_1} - 1.96 se (\hat{\mu}); \hat{\mu}_{m_1} + 1.96 se (\hat{\mu}).

Var(\hat{\mu})
```