```
C\Pi \omega (\Omega, F, P)
                       X(t) = X(\omega, t) \omega \in \Omega, t \in T
              upu w=ws X(wo,t) - mpoeuropue CT
               ym t=to X(w,to) - CB
      opp cn
                                           Fn(x1,,,xn;t1,,tn) = P(x(t1)<x1,,x(tn)<xn)
       gle ograngen.
      MO CT m(t) = E \times (t) = \int_{m}^{\infty} x dF(x;t)
      AUCHERCUS
                                                                         V(t) = V \times (t) = E((\times(t) - w(t))^2) =
                                                   СП
                                                                         =\int\limits_{\mathbb{R}}(x-m(t))^2dF(x;t)
                                                              r(t_{1},t_{2}) = E(x(t_{1});x(t_{2})) = \iint_{\mathbb{R}^{2}} \frac{x_{1} \cdot x_{2}}{x_{2}} dF_{2}(t_{1}) dF_{2}(t_{2})
|t_{2}| = \iint_{\mathbb{R}^{2}} \frac{x_{1} \cdot x_{2}}{x_{2}} dF_{2}(t_{1},t_{2})
     KOPP. P CM
    Kolop. P CTI
                                                                P(t,,t2)= E((x(t1)-m(t1).(x(t2)-m(t2))) =
                                                                                       = SS (x1-m(t1)).(x2-m(t2)) dF2 (x1, x2; t1, t2)
       Cuongraphin CT - MO ne zolo am lipenerum t
                                                               m(t)=m \forall t
        Buyuyenne cuousvarapurati CN-Rom
                                           1) E(x(t_1)-x(t_2))=0
2) V (x(t<sub>1</sub>) - x(t<sub>2</sub>)) = 2 y (t<sub>1</sub>-t<sub>2</sub>)

green wood gam amondo our obum when the remaining the remaining of the second of the
upupamene) = E((x(s+h)-x(s))-E(x(s+h)-x(s)))2)
                                                                           y(h)-cumboymorpamina
```

musmapure charmapure CN Beegn

28(h)=04x(s+h)-x(s)y, s,h∈≥ Pacencorpun, craructury buga: 28(h)= n-h = (X(s+h)-X(s)) h= 0,n-1; 8(-h)=8(h), h=0,n-1 8 (h)=0, 1h/>n $M(28(h)) = \frac{1}{n-h} \sum_{s=1}^{n-h} (x(s+h)-x(s))^{s} =$ 1 n-h

(S+K) - X(3) (2 - 28(h) 22

1 n-h

(S+K) - X(3) (2 - 28(h) 32

1 n-h $= \frac{N - V}{1} \sum_{k=1}^{k=1} (52(V)) = 52(V)$ $909/28(h_1)/28(h_2)=Mh(28(h_1))-Mh(28(h_1))-Mh(28(h_1)))$ cox (2 g(h), 2 g(h2)) = E((2 g(h1) - E(2 g(h1))). $.(2F(h_2)-E(2F(h_2))))=E((2F(h_1)-2F(h_1))\cdot(2F(h_2)-2F(h_2))$ $= E\left(\left(\frac{1}{h-h_1}\sum_{s=1}^{n-h_1}\left(x(s+h_1)-x(s)\right)^2-2\gamma(h_1)\right), \left(\frac{1}{h-h_2}\sum_{s=1}^{n-h_2}\left(x(s+h_2)-x(s)\right)^2-2\gamma(h_2)\right) \right)$ $= \left[\text{pourposbelic cuosice nog Mo, zamen nognorum Mo } \right] = \frac{1}{(n-h_1)(kn_1h_1-h_2)} \cdot \sum_{k=1}^{n-h_1}\sum_{s=1}^{n-h_2} E\left((x(s+h_1)-x(s))^2, \left(x(s+h_2)-x(s)\right)^2\right) - \frac{2\gamma(h_2)_{n-h_1}}{n-h_1}\sum_{s=1}^{n-h_1}\sum_{s=1}^{n-h_2}\sum$

$$\begin{array}{l} \cos \sqrt{\left(2\pi(h_{1}),2\pi(h_{2})\right)} = E\left(\left(2\pi(h_{1})-E\left(2\pi(h_{1})\right)\right),\\ \left(2\pi(h_{2})-E(2\pi(h_{2}))\right) = \\ = E\left(\frac{1}{h_{1}-h_{1}}\sum_{s=1}^{h_{1}-h_{1}}\left(\left(x(s+h_{1})-k(s)\right)^{2}-E\left(\left(x(s+h_{1})-x(s)\right)^{2}\right)\right),\\ \frac{1}{h_{1}-h_{2}}\sum_{s=1}^{h_{1}-h_{1}}\left(\left(x(t+h_{2})-x(t)\right)^{2}-E\left(\left(x(t+h_{1})-x(t)\right)^{2}\right)\right),\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{t=1}^{h_{1}-h_{2}}\left(\cos \sqrt{\left(x(s+h_{1})-x(s)\right)^{2}(x(t+h_{2})-x(t))^{2}}\right)\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{t=1}^{h_{1}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2}(x(t+h_{2})-x(t))^{2}\right),\\ \sqrt{2}\left(k(s+h_{1})-x(s)\right)^{2}\left(k(s+h_{1})-x(s)\right)^{2}\left(k(t+h_{2})-x(t)\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{s=1}^{h_{1}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{s=1}^{h_{1}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{1}}\sum_{s=1}^{h_{1}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{s=1}^{h_{1}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{s=1}^{h_{1}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{s=1}^{h_{2}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{s=1}^{h_{2}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{1}-h_{2}}\sum_{s=1}^{h_{2}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{2}-h_{2}}\sum_{s=1}^{h_{2}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{s=1}^{h_{2}-h_{2}}\sum_{s=1}^{h_{2}-h_{2}}corr\left(\left(x(s+h_{1})-x(s)\right)^{2},\left(x(t+h_{2})-x(t)\right)^{2}\right)^{2}\\ = \frac{1}{(h_{1}-h_{1})(h_{1}-h_{2})}\sum_{$$

$$\frac{2\delta(\S+h_1-\S)}{2\sqrt{2\gamma(h_1)}} + 2\delta(\S-\S-h_2) - 2\gamma(\S+h_1-\S-h_2) - \gamma(\S-\S)}{2\sqrt{2\gamma(h_1)}} = \frac{2\sqrt{2\gamma(h_1)}}{2\sqrt{2\gamma(h_1)}} + \frac{2}{\sqrt{2\gamma(h_1)}} + \frac{2}{\sqrt{2\gamma($$

 $corr((x(s+h_1))^2, (x(t+h_2)-x(t))^2) =$ $= E((x(s+h_1)-x(s))^2, (x(t+h_2)-x(t))^2) =$ $= E((x(s+h_1)-x(s))(x(t+h_2)-x(t))^2 =$ $= E((x(s+h_1)-x(s))(x(t+h_2)-x(t))^2 =$ $= E((x(s+h_1))^2, (x(t+h_2)-x(t))^2 =$ $= E((x(t+h_2))^2, (x(t+h_2)-x(t))^$