```
SVILUPPI Mec LAURIU: 1 3 4 4 4 4 ... -> K-0 KI
                ton(+): x+ x3 + 2 x5 + o(x6)
                \binom{n+1}{n} \binom{n}{n} \binom{n}{n} \binom{n}{n} \binom{n}{n} \binom{n}{n} = \binom{n(n-1)(n-1)}{n!}
 FORMULE GONIOMETRICHE
                  sein (a + B) = seina cos B + cosa sin B rin (2 a) = 2 sina cosa
                (Φ) (α ± β) = (Φ) α (Φ) β + μίπα μίπβ (Φ) (2α) = (Φ) α - μίπα → 1 - 2μίπα; 2 (Φ) α-1
               tom (a ± B) = 1+ tome ton B tom (2a)= 2+tome
              sin\left(\frac{\omega}{2}\right) = \sqrt{\frac{4 - \cos \omega}{2}}
cos\left(\frac{\omega}{2}\right) = \sqrt{\frac{4 + \cos \omega}{2}}
              \lambda \ln \alpha = \frac{e\varepsilon}{1+t^2} \qquad \frac{4-\varepsilon^2}{\cosh^2 - 1+t^2} \qquad \text{con } t = \tan \frac{\alpha}{2}
 FUNZIONI IPERBOLICHE
                \frac{e^{x} \cdot e^{-x}}{2}
                                                                                                                                                                                                                               axinh x = hr(1+ \(\sqrt{1+x^2}\))
                                                                                                                                                                                                                                                                                                                                                               acosh x = ln (1. 12-1)
                                                                                                                                                                                                                                                                                                                                                               cosh (orinh x)= \square
                                                                                                                                                                                                                             rinh (occosh x) = Vx'-1
                cosh x - sonh x = 1
               cosh \times - schn \times = 1
renh \times = 2 schn \times cosh \times cosh \times = cosh^{2} \times schn^{2} \times schn^{2}
SOSTITUZIONI INTEGRALI
                Va-2 → x= exint
                √x²-a² → x-a conte
                √a2+x2 → x=a right
                R(x, x norma, ...) -> x = en con n minimo concerne mulipelo oli ma, ma...
 Asintotici
                                                     ninhxx x ex-1 x x ax-1 x x ln a
                                                                                                                                                                                                                                                                                                                hr(x)~ x-1 x=1
                   minx ~ x
                1-cos x = 1 x coshx-1 ~ 1 x
                                                                                                                              ln(1+x)~ x
                                                                                                                                                                                                      loga (1+x)~ x logae
               tonx~x
                                                                                                                                              (1+x) -1 ~ Kx
                avicton x ~ x
  NUMERI COMPLESSI
              "VE= "VIEI ( cos ( x+2KE) + i sin (x+2KE))
                                                                                                                                                                                                                 2+== 2 Pe(z) 2-== 2 dm(z)i
                                                                                                                                                                                                               2 = 121 (cos (na) + c sin (na))
```