Popryka Guphica n! ~ = " 5 m 52 or Dagatenerbo: l'acemotrem ceruny neptres natypastilles a non apapular horalns+h2+...+lnx= lnx+ mnn + flnndn- 1 (x3(1-5x2) dx Coasy zamucapa Duneper- Bropas npoustages More Aspers $\int \ln n \, dn = \begin{bmatrix} u = \ln n & u' = \frac{1}{n} \\ v' = 1 & v = n \end{bmatrix} = n \ln n - \int \frac{1}{n} \cdot n \cdot dn = \ln \ln - n + C$ $\frac{1}{200} + \frac{\ln n}{2} + (\ln n - n) \frac{\ln n}{2} + (1 + 0(1)) = \frac{\ln n}{2} + \frac{\ln n$ $\frac{2 \ln u}{2} + n \ln n - n + (1 + 0(1)) = \frac{\sum_{i=1}^{n} (1 - i \times i)}{\sum_{i=1}^{n} \ln i} = \ln n! - no cb-bara$ $\frac{2 \ln u}{2} + n \ln n - n + (1 + 0(1)) = \frac{1}{2} \ln i = \ln n! - no cb-bara$ Mordpapma! => 14 n! = \frac{\ln h + n \ln h - \n + (1 + O(1)) \e n! 2 e 2 + n ln n - n + C₁ + 0(4) h! 2 5n · n · e · e · e · e · o (4) ~ C · 5u · n · e · n Demanos buaguas, 43 x C₁ + O(5) Pacemo Tour Jot no Barmey:

ST = lim (2 k!! \ \square \lambda \lambda

= lim (2k.(4k!)|2/1 = lim 2k.(2) bulbern) | (2 kl. Kk.e-k.C) | = (im SZ = GR k->000) ST = 52 => C= 525