Probabily should with a set -outcomes sample P=0 @ happen We have at probability functions P=0 @ happen

P: P(X) = "how likely is U"? PE(O) | happen

P(U) = "how likely is U"? PE(O) | happen pe(o,) likelimod. If U,,..., Un are $P(U, 0 - U, 0) = \sum_{i=0}^{N} P(u_i)$ $T_i = \sum_{i=0}^{N} P(u_i)$ disjoint events A Com Flipping $X = \{ H_{\lambda} \tau \}$ {T} 1-P 2 PT, H 3

* X= rolls of 2 6-sord die 36 botal χ_{2} $\{(\Box, \Box), (\Box, \Box), \dots\}$ elements. - P(S(x,4)) = 1/36 Probabily that som of the die o 5? $E = \{ (1,4), (2,3), (3,2), (4,1) \}$ P(E)= 4/30 = /9. we massive the temperature with an error-prone Hermancher. * X=R "The temperature" is to Measurements are totx. Probability density p(x): R > 1R. USP $P(TC) = \int P(x)dx = "chance that our measuremnt lands in U"."$ (1= (2-5,5) K (2-5,5) Lor 5 #0 P(U) = (2,8-2) = N P(U) = (2,8-2) = N $P(x) = \frac{1}{\sqrt{2\sigma^2}} e^{-x^2/(2\sigma^2)}$

