For smitherpalant traisiens)

", measures" are to a large degree arbitrary. If your calleagues pick and, and you, "Adend" their measure, then you will make a mistake

Bayesian us frequentst - discussions are about the meaning attributed to probability measures

Measure they S be a set called sample spale.

May S be a set called sample spale.

As G-Algebra on it, now called a supple spale.

may than be a musune P: E-Lar

then pl is a measure if

(i) for all A; E & have pl(A;)>0

(i) P(E;) E [O,1] & E; E E

(ii) \( (i) = 0 \\ (ii) = 0 \\ (ii) \( (i) = 0 \\ (ii) = 0 \\ (ii) \( (i) = 0 \\ (ii) = 0 \\ (ii)

(iii)  $\frac{\partial}{\partial x} \mathcal{A}(A; A) = \frac{1}{2} - \frac{1}{$ 

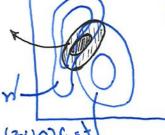
is it is the same, the only enhancement is.

Oct.: May (5, 12, 12) be a measure space than h. is a probability measure

· Example: Boyes thrown:

3(8/x) = 2 (x/8) T(8) (a) T(8) = 2 (x/8) (x/8)

(x) 3(6/x)



4= (0)1

" עליילאי - ס מפליליילץ "

٤ (مِالِهِ٤) ع(مِالِهِ) ع ع (مِهَالِمِهُ) ع (مِهَالِمِهُ)

(3/2)

- 2 polity such as it of substant spind p copies 511 co is as measured by prive The forest of the experiment
- . The Orac S- "function" is in reality a probability measure. . F=(2) My History Sahisty Milidad org.
- Sp (A) = (A) gs

- S ris y then Sp(S) = 1, since the point is definitely in S
- xp (x) g (x) } =" (d) = f(b) = f(b) few dra mon with mis & · Lebesgue integration with Dirac-mansure:

Consequences:  $\int_{-\infty}^{\infty} \delta_{\rho}(ax) dx = \int_{-\infty}^{\infty} \delta_{\rho}(x) dx = \frac{1}{|a|} \int_{-\infty}^{\infty} \delta_{\rho}(x) dx = \frac{1}{|a|} \cdot 1$ where the other properties of the  $\delta$ -function)