Oncountable 2

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Ex: 20= (011) 2 for example we are

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in this case if we take I = 22

The set of all Possible sursets of

[0,1] intervals its a very huge

contection of sets.

D = [01] uncountable Cf= 2 vous huge, it has Storictly Bigger condinglity even the eleamen logic => That in too big or-algebra to assign Probabilites to. tommos sw bout maldorg at to the problem that we comnot assign probabilities to all sets of [011] inferred. -> The elementary approach of simply assigning ProBabilities to singleton's definitely not gonna woxla $\overline{\omega}$

- (Evol) 91 or i co drop of 91 noises of every bill (Evol) it cannot be arrything Positive. Because it it is Positive, we would want to tot same Production of the policy of the sloniz Energhile no chilidadors?
 - =) Dut then we quickly find out that there
 is uncountable infinity wis, and if

 any of them one the probability

 of winterval will Blow up.
- The only thing we can do in

 P of singleton in O
- =) so, the way out of this is to stop wooding about singleton sursets,

 The idea is to disrectly assign IP to sels we consider in teresting.

 Sussets of De we found interesting.

- we want to Put a Parobability measure
 Such as
 - - = IP (Ca16))
 - = IP ([a,6])
 - (2) Transulational in variance.

$$P(A) = P(A \oplus sc)$$

Impossibility theorem

There does not excist a measure

M(A) Defined on 22, i.e

all subsets of [011] satisfying

D and 2 above.

cher level to Abril