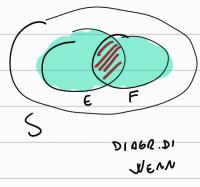
## Assioni tella probabilità / 04-03

- · SPAZIO CARPIONARIO S: insieme dei visulteti possibili di
- es longio dedo -> S e' l'insieure dei numeri de 1 e 6
- · EVENTO ECS: sottoinsieme dei visulteti di uno sporio
- os longo dado -> É e un numero minoro di 3, appuve 1
- E, FCS · NOSIONI SUGA (NSIEDI



- · Unione EUF
  - · intersegione ENF = EF
  - . disgiunti EF = Ø
  - · complements Ec . Into co che non

- · ASSIONI
- 'S e la tarta, E la getta, Probobilité Pèla granderra di lorta e gette
  - Pe'lo moppo sullo sporso degli eventi di un insieme compionorio

P(UE;) = E P(C:) Pdell'unione di insiemi PROPRIETA' disginti e la somme ADDITIVA delle single P

· PROPRIETA'

$$\Rightarrow P(S \cup \emptyset) = P(S) + P(\emptyset) = 1 + P(\emptyset)$$

$$1 = P(S) \qquad mo ollove e` 1+0$$

$$P(E') = (-P(E))$$

$$1 = P(S) = P(E \cup E^{c}) = P(E) + P(E^{c})$$
Treltions ins. disginti  $(P(E^{c}) = 1 - P(E))$ 

c) 
$$E \subset F \subset S$$
  $P(E) \subseteq P(F)$ 

$$P(E) = P(E) + P(E^{c}) - P(F^{c})$$

$$P(E) \subseteq P(E) + P(E^{c}) - P(F^{c})$$

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$$P(E^{c}$$

"Cos: Severeli su cosi possibili"

senza ulteriori conti perclu epriprobobili

## Esercizio

Probobilité di fore 7 louviende 2 dodi?

$$E = \{(1,4),(6,1),(2,5),(5,2),(3,4),(4,3)\}$$

Esercizio con combinazioni

Un'uma con polline 6 biendo, 5 nexe Probabilite d' 1 b e 2n?

(estreggo 3 polline)

$$N = \text{quanti modi (sense ozdine) di} = {11 \choose 3} = {11 \choose 3} = {165 \choose 3}$$
estrone 3 polline on 11

$$*E = \begin{pmatrix} 6 \\ 1 \end{pmatrix} \begin{pmatrix} 5 \\ 2 \end{pmatrix} = \frac{6!}{1!5!} \cdot \frac{5!}{2!3!} = 60$$

une bionce do 6 bienche is nere P(E) = 4/11

Alternetiva con le disposizioni

N=11.10-3=330 dopo le vorie estrorieni, nº modi di estrone

BNN, NBN, NNB sous events disginti, duyne ? (unione de li everti) = Sommotoria delle vorie ()

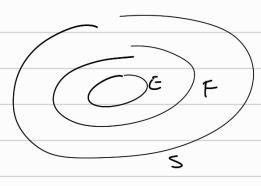
Keywords:

Sperio Compionario Events Probobilita

trenti eperprobabili

## \* c) Solvaione oflenative

YE, F < S se E < F offore P(E) < P(F)



he segue 
$$P(F) \ge P(E)$$