

- Harry, installed a new burglar This balan, responds to robbery but also responds to earthquakes - Harry neighbours, David & Sophia will inform thery if alau rings - David calls Havy on Alarm, but sometimes gets confused with Sophia listens to munc & somethis es not hanthe Haw Problem:

colour:
- Calculate the probability that
the alarm has sounded
- But, no burglary & no earthque
happened
- And Joth David & Soldnia call Havy

Joint Probability Distribution P(S,D,A,B,E) = P(S|A) * P(D|A) * P(A|B,E) * P(B) * P(E)=075*091*0001*0998*1999 =0.00068045

Particle Winston BAI

1/W. [- Burglary happen, Earth grake not hold - Alarm sing now Sophia call Harry P(S=F H=F A=7 B=7 E=F)=