

Emma

Noel

Eric

Caroline

Jacob

Tianzhi

Hamilton

Gebre

Steph

Abraham

Graham

Jack

Walter

Jacqueline

Bryan

Brendan

Zach

Zale

Scott

Lillie

Michael

Discuss:

Given our new understanding of single photon behavior, explain the 3-filter lightbulb experiment.

Discuss:

1. How should Bob use his filter and detector to learn Alice's message
2. How can Eve eavesdrop without being detected?

Bit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
a	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
b	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1
c	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	1	0	1
e	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	2	2	2	2
f																				
d																				

- Find f, d