amin = 75, amax = 90  
bmin = 500, bmax = 600  

$$p_{1}=0,1$$
;  $p_{2}=0,01$ ;  $p_{3}=0,3$   
 $C \in [0, amax + bmax]$   
 $d \in [0, 2(amax + bmax)]$ 

w2.

$$p(\alpha, \delta, c, d) = p(d|c)p(c|a, \delta)p(\alpha)p(\delta)$$

$$\|Z_{\alpha} = 12,5$$
,  $\|D_{\alpha}\| = \frac{16^2 - 1}{12} = 21,25$ 

$$\mathbb{E}_{6}^{2} = 550$$
,  $\mathbb{D}_{6}^{2} = \frac{101^{2} - 1}{72} = 850$ 

15 d= 16c+16 Bin(c,p3) = 0,1a+0,016+0,3c Dd = Dc + DBin(c, p3) + 2 cor(c, Bin(c, p3)) = = 0,09a + 0,009g 6 +0,21c +2 1EcBin(c,p3) -0,06ac-0,006 6c Brighan Moghet: p(a,l,c,d) = p(d|c)p(c|a,l)p(a)p(l)d/c~c+Bin(c,p3) cla, 6 n Poiss (apr + 6p2) an U [anin, aman] b- U[bnin, bmax] Ea=82,5; Da=27,25 1E6 = 550; D/ = 850 IEC = 0,7a+0,016 Dc = 0,1a+0,016 Ed= 0,1a+0,016+0,3c

 $\mathbb{P}d = \mathbb{P}c + \mathbb{D}Bin(c,p_3) + 2cov(c,Bin(c,p_3)) =$   $= 0,1a + 0,01b + 0,21c + 2EcBin(c,p_3) - 0,06ac - 0,006bc$ 

$$P(b|a) = p(b), Ep(b|a) = 550, Dp(b|a) = 850$$

$$P(b|d) = \frac{p(d|b)p(b)}{\sum_{b=500}^{600} p(d|b)p(b)} = \frac{p(d|b)}{\sum_{b=500}^{600} p(d|b)p(b)}$$

$$\frac{p(6|d=1Ed)}{\sum_{l=500}^{600} p(d=1Ed|l)} =$$

$$\frac{p(dz|Ed|c)p(c|a,b)p(a)}{\sum_{b=500}^{600}p(dz|Ed|c)p(c|a,b)p(a)}$$

$$p(6|a,d) = \frac{p(a,d|6)p(6)}{\sum_{b=500}^{600}p(a,d|6)p(b)} = \frac{p(a,d|6)}{\sum_{b=500}^{600}p(a,d|6)}$$

$$= \frac{p(d|a,b)p(a)}{\sum_{l=500}^{600}p(d|a,b)p(a)} = \frac{p(d|a,b)}{\sum_{l=500}^{600}p(d|a,b)} = \frac{p(d|c)p(c|a,b)}{\sum_{l=500}^{600}p(d|a,b)}$$

$$p(l|a=lEa,d=lEd) = \frac{p(d=lEd|c)p(c|a=lEa,b)}{\sum_{b=soo}^{600}p(d=lEd|c)p(c|a=lEa,b)}$$

$$p(c) = p(c|a, b) p(a) p(b)$$

$$p(c|a) = p(c|a, b) p(b)$$

$$p(c|b) = p(c|a, b) p(a)$$

$$p(b|a) = p(b)$$

$$p(\delta|d) = \frac{p(d|c)p(c|a,\delta)p(a)}{\sum_{\delta=500}^{600} p(d|c)p(c|a,\delta)p(a)}$$

$$p(b|a,d) = \frac{p(d|c)p(c|a,b)}{\frac{coo}{2}p(d|c)p(c|a,b)}$$

$$p(d) = p(d|c)p(c|a,b)p(a)p(b)$$