

# COMPITO (B) 15.06.2022

## ESERCIZIO #1

ASP ADA phe x asp ada PHE

geni	PD	NPD	T
ASP ADA	200 250	18	44 198 98 50

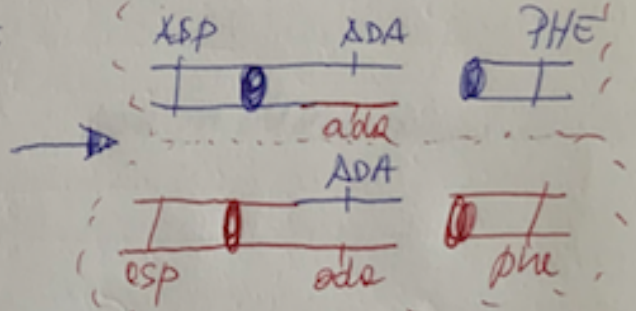
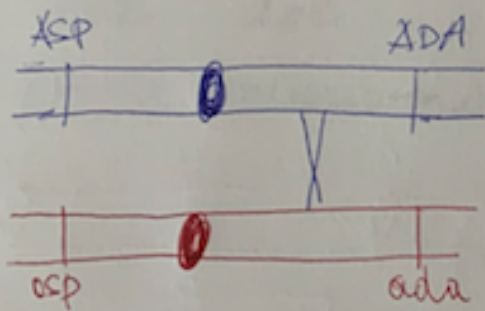
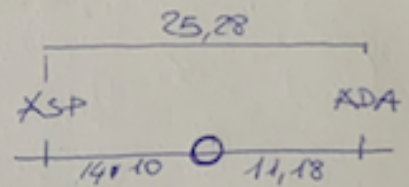
PD >> NPD  
geni associati  
tetradi ORDINATE

$$D_{ASP-ADA} = \frac{18 + \frac{1}{2}(44 + 198 + 98 + 50)}{858} \times 100 = 24,8 \text{ um}$$

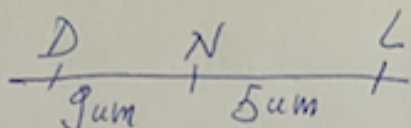
$$D_{ASP-CEN} = \frac{\frac{1}{2}(44 + 198)}{858} \times 100 = 14,10 \text{ um}$$

$$D_{PHE-CEN} = \frac{\frac{1}{2}(18 + 198)}{858} \times 100 = 12,5 \text{ um}$$

$$D_{ADA-CEN} = \frac{\frac{1}{2}(44 + 50 + 98)}{858} \times 100 = 11,18 \text{ um}$$



## ESERCIZIO #2



a)

$$\frac{DNL}{dNL} \otimes \frac{dne}{dne} \quad I=0,3 \quad \alpha=0,7$$

$$\frac{Dne}{dNL} \Big]_{DCO} 0,09 \times 0,05 \times 0,7 = 0,00315$$

$$\frac{Dne}{dNL} \Big]_{RI} = 0,09 - 0,00315 = 0,086 \quad \frac{DNL}{dne} \Big]_{RII} = 0,05 - 0,00315 = 0,046$$

$$\frac{DNL}{dNL} \Big]_{P} = 1 - (0,086 + 0,046 + 0,00315) = 0,86315$$

b)

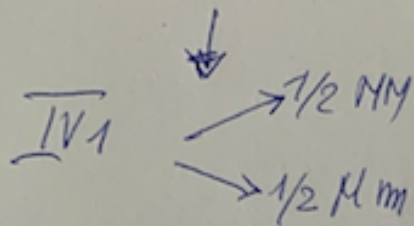
$$\frac{DNL}{dne} \times \frac{dne}{dne} \rightarrow \frac{Dne}{dne} ? \quad \alpha=0$$

gemete necessario  $\rightarrow$  Dne (da DCO) non si ottiene perché DCO=0

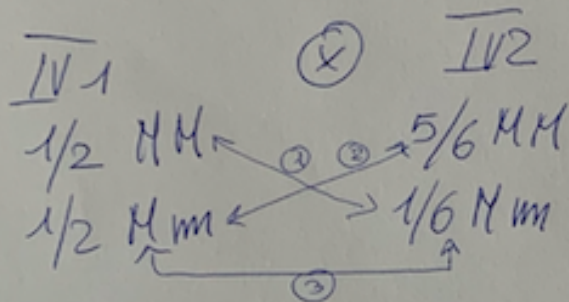
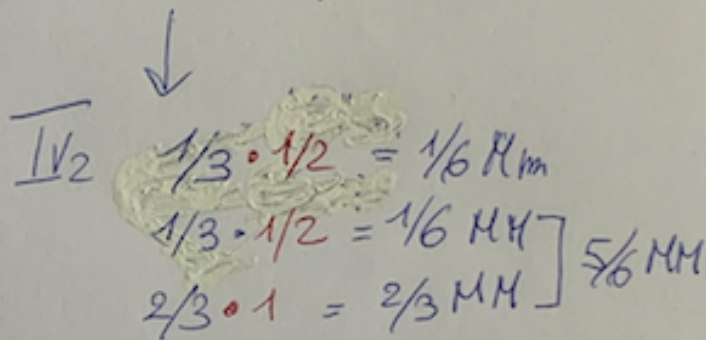
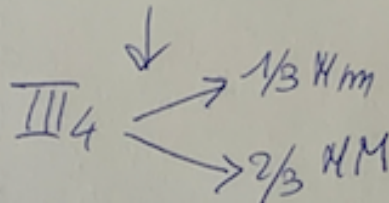


**Esercizio #3**

$\overline{III}_2 = Mm(1) \otimes \overline{III}_1 = MM(1)$



$\overline{II}_5 = 2/3 Mm$   
 $1/3 MM$



$\overline{V}_1 (Mm)$

①  $1/2 \times 1/6 \times 1/2 = 1/24$

②  $1/2 \times 5/6 \times 1/2 = 5/24$

③  $1/2 \times 1/6 \times 1/2 = 1/24$

probabilità totale  $Mm$

$1/24 + 5/24 + 1/24 = 7/24$

**Esercizio #4**

$\%_{\text{cos}} \text{ his phe} = \frac{18+2}{325} = 6,15\%$

$\%_{\text{cos}} \text{ his gey} = \frac{105+2}{325} = 51,4\%$

his centrale perché gli  
 extraduttori  $\text{phe}^- \text{ his}^+ \text{ gey}^-$  sono più rari

