1. Study = f 2# Dowers auxilitede  $\frac{1}{\sqrt{2}} \sum_{\pi} \left( - \sum_{n=0}^{\infty} e^{n} \right) = \left( - \sum_{n=0}^{\infty} e^{n} \right)^{2}$ 2: 3°=0 ; T J°=0 R.(211) chargel; O®O×LP; P=(-L)L 000002+= 2+ in pruve are 2+ hasonaces in Prover are 5 C(-1) = G, T=1 Soi charges perticles

$$G(TP) = 1$$

$$\Rightarrow C((init)) = G(-1)^{\frac{1}{2}} \Rightarrow -1(-1)^{\frac{1}{2}} = +1 \Rightarrow C((final)) = +1$$

$$P: 1^{-\frac{1}{2}}, D: 2^{\frac{1}{2}}, F: 3^{-\frac{1}{2}}$$

$$P: 1^{\frac{1}{2}} \otimes \frac{1}{2} = 0 \Rightarrow 1^{-\frac{1}{2}} \Rightarrow conver$$

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$$C(99) = (-1)^{1/2}$$

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$$C(199) =$$

voler

Separation of the partial moves

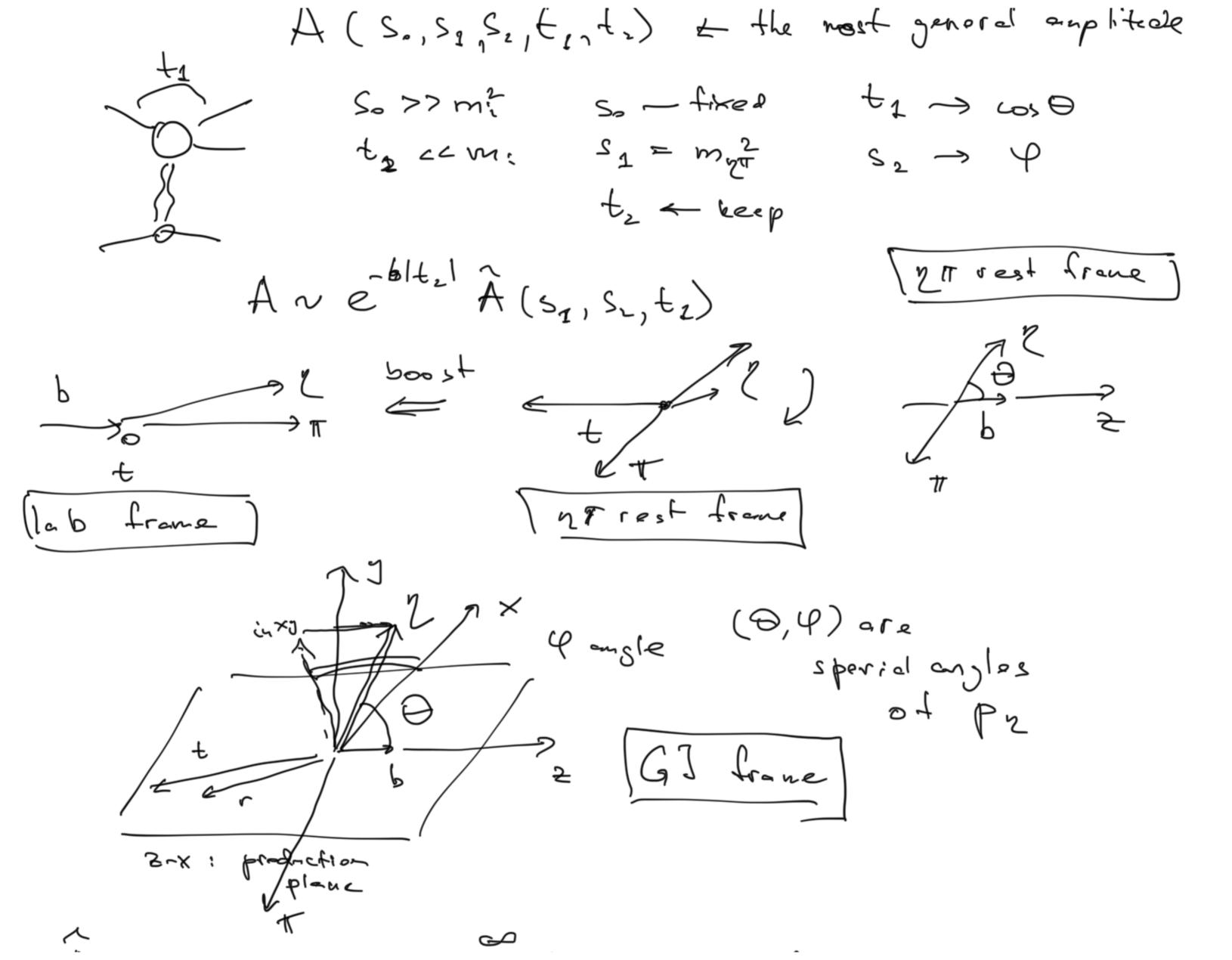
$$S = (P_{1} + P_{2})^{2}$$

$$S_{2} = (P_{5} + P_{4})^{2}$$

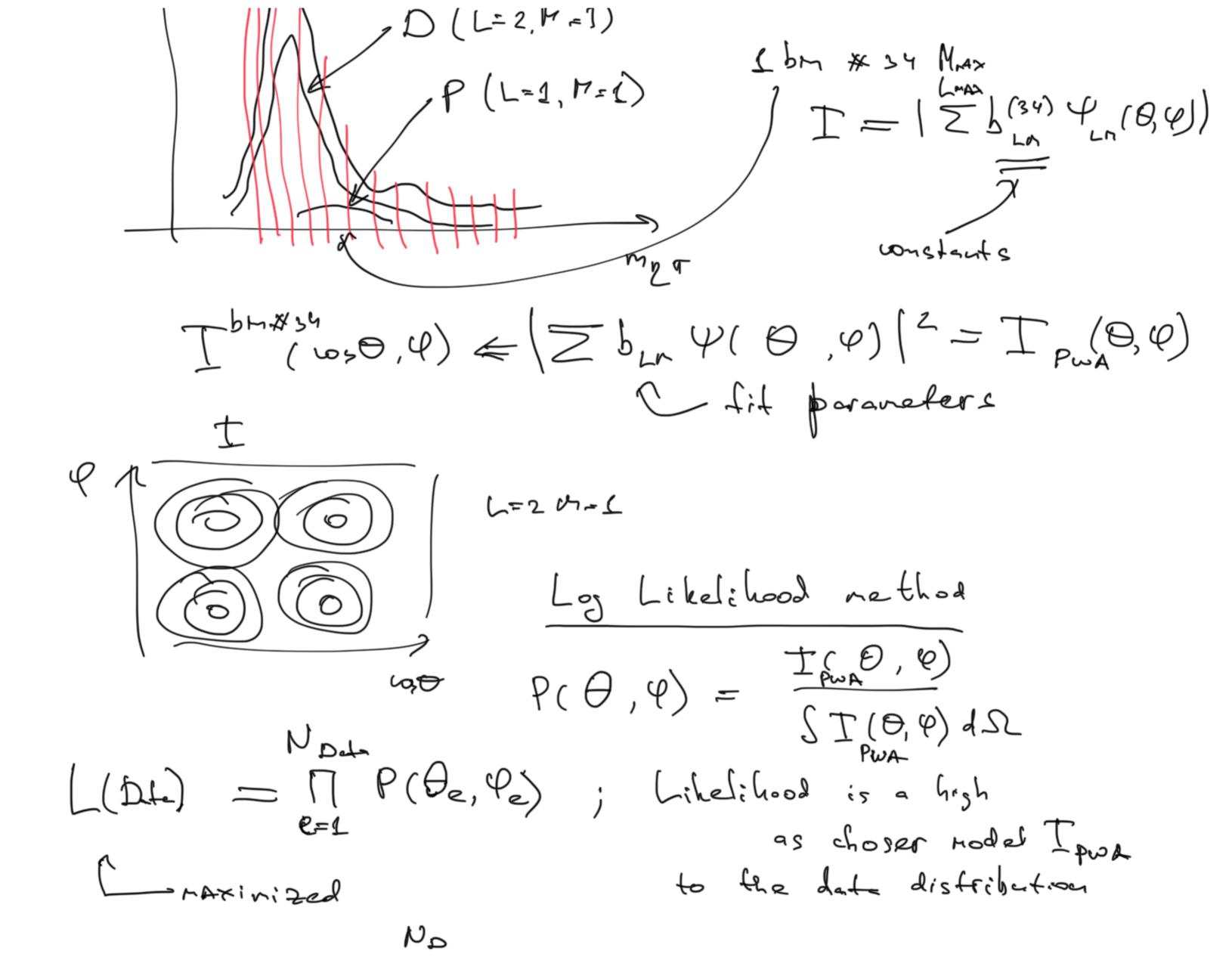
$$S_{2} = (P_{7} + P_{7})^{2}$$

$$t_{2} = (P_{7} - P_{2})^{2}$$

$$t_{3} = (P_{7} - P_{7})^{2}$$



 $A(m_{2\pi}, \omega 0, \varphi) = \sum_{n} b_{Lm}(m_{2\pi}) \Psi_{Lu}(\omega 0, \varphi)$ we are going to down on the the sun at homex Max  $\Psi_{Ln}(\omega,\theta,\varphi) = \left(\frac{2L+\Gamma}{4\pi} d_{r,0}(\theta) - \sqrt{2}\right)$ wigner femations P (JM) =  $\sum_{h'} D^{J}(R)(Jh')$ R (JM) =  $\sum_{h'} D^{J}(R)(Jh')$ R =  $\sum_{h'} D^{J}(R)(Jh')$ all possible values of  $D(R) = \sum_{h'} D^{J}(R)(Jh')$ which  $D(R) = \sum_{h'} D^{J}(R)(Jh')$ complex 2= / (B,9) / L, (B,0) / = ( Novergi Fation  $T = \sum_{hn} \sum_{hn} Y_{cn} I^{2}$   $\int_{hn} \sum_{hn} b_{ln}(n_{2}r)$ A ~ I ~ IAI2 1 In



Lift = log L = 
$$\frac{1}{2}$$
 log  $\frac{1}{2}$  log  $\frac{1}{2}$  log  $\frac{1}{2}$  convinited

NLLH =  $\frac{1}{2}$  log L =  $\frac{1}{2}$  rininized

 $\frac{1}{2}$   $\frac{1}{2}$ 

$$\Rightarrow NLLHexp = -los Lext =$$

$$= -los \left[ \frac{p^{N}e^{-P}}{N!} \frac{I(\Omega_{0})}{I} \right] =$$

$$= -\left[ \frac{N}{2} los I(\Omega_{0}) - P - los N! \right] =$$

$$= -\left[ \frac{N}{2} los I(\Omega_{0}) + I I_{PVA} d\Omega \right] =$$

$$= -\frac{N}{2} los I(\Omega_{0}) + I_{PVA} d\Omega =$$

$$= -\frac{N_{D}}{2} los I(\Omega_{0}) + I_{PVA} d\Omega =$$

True contion in LM:  $L \leq 6$ ,  $M \leq 2$   $L \Rightarrow (L,M) \in \{(2,5), (1,1)\}$