$$\frac{|\Delta|}{|\Delta|} b(\omega, t) = -\frac{|\Delta|}{|\Delta|} \frac{|D(t) \cdot \omega|}{|\omega|} \xrightarrow{\text{log}} \frac{1}{|\omega|} \frac{|\Delta|}{|\Delta|} \frac{1}{|\Delta|} \frac{|D(t) \cdot \omega|}{|\Delta|}$$

Notation

$$Q(\omega,t) = D(t) \cdot \omega = \sum_{\lambda=1}^{N_0} \cos(Q_0^{\lambda}t) \omega_{\lambda} + \sum_{\lambda=1}^{N_0} \sin(Q_0^{\lambda}t) \omega_{\lambda}$$

$$G(\omega, t) = \int g(\omega, t) dt = \sum_{i=1}^{N_{a}} \frac{Sim(e_{a}^{i}t)}{e_{a}^{i}} \omega_{i} - \sum_{J=1}^{N_{b}} \frac{cos(e_{b}^{J}t)}{e_{b}^{J}} \omega_{Na+J}$$

$$b(\omega, \pm) = \frac{1}{\pi} \int_{\frac{\pi}{2}} \frac{1}{12} (\omega, \pm) \frac{1}{12} \frac{1}{12}$$

$$\frac{\text{Def}}{\text{Def}} = \frac{1}{\pi} G(\omega, \pi) + \frac{1}{2} G(\omega, \pi) - \frac{1}{\pi} G(\omega, \pi) + \frac{1}{2} G(\omega, \pi) + \frac{1}{2}$$

Then we have
$$b(\omega;t) = \lim_{\theta \to +\infty} b^{\theta}(\omega;t)$$

$$G(\omega,\pi) = - \underbrace{\sum_{J=1}^{N_b} (-1)^{Q_b J}}_{J=1} \underbrace{\sum_{Q_b J} (-1)^{Q_b J}}_{Q_b J} \underbrace{\sum_{J=1}^{N_b} (-1)^{Q_b J}}_{N_b J} \underbrace{\sum_{J=1}^{N_b} (-1)^{Q_b J}}_{Q_b J} \underbrace{\sum_{J=1}^{N_b} (-1)^{Q_b$$

$$Q(\omega,\pi) = \sum_{k=1}^{N_0} (-1)^{Q_0} \omega_k = -\sum_{k=1}^{N_0} \omega_k = -\sum_{k=1}^$$

Hemce! bo(w.t) = 20s tomh(OCg) - 2 G(w.t) tomh(Og(w.t))

Y^θ(ω): = θ(ω, *) < ε for all tology and vote

 $\lambda_{\text{opt}} = \min_{\omega \in \mathbb{R}^N} \lambda^{\theta}(\omega)$

 $\lambda^{\theta}(\omega) = \lambda^{\theta}(\omega_1, ..., \omega_N) = -\left(\sum_{j=1}^{N} V_j \omega_j\right)^{-1} b^{\theta}(\omega_1, ..., \omega_N, \pm)$

 $\frac{Q}{Q_{M_{1}}} \times \theta = \left(\frac{N}{J_{+1}} V_{J} \omega_{J} \right)^{-2} V_{D} \theta - \left(\frac{N}{J_{-1}} V_{J} \omega_{J} \right)^{-1} \frac{Q}{Q_{M_{2}}} \delta \theta$

= -2:tanh (8) @ G -2 G @ tanh (8)

= - 12 + comb (6g) 00 00 0 - 13 0 CO3/2 (89) 933 P P P

11 The touch (By) De G - R DG DOWL D

Sim(02 x)

- col(0 x x)

- col(0 x x)

00 Qo の河へのです) COS(colt) L=1,..., No

R= Nb+1.... Nb

<u>Θ</u> bθ = 2 cos(egt) tomh(θ) - 2θ Sim(egt) cosh2(θ)

+ moll v

R = Noti.../Zr -0 0 × 0 0 0 0 0 0 V 0 0 V 0 0 V 0 0 V 0 0 V 0 0 V 0 0 V 0 0 V 0 0 V 0 0 V (V. ω)² + Δ (V.E) 2 (Ted Sim(Oat) tomh(Og) 2 3 + 20 cos(est) (64) Top COS(est) tanh (89) - 20 Sim(ebt) 0