Dero fore il limite per mosos (solo ultimo flavour.) lim The (rj+ MN+1) M (-rj+ VN+1) MATI = M- MANT + MB + MD Vn-1=(1)m - mANE - mB + w D

log Ph ( ωR + ρ(σ) + γ(μ)= nig ~ (~ (μο)) πι ( [ω(k-1) + ρ(Γ) + γ(μ)]² - ω,²μω; )+ο(e-ds)

Now:  $\rho(\sigma) = \sigma : \sigma r - \sigma : \mu_0 = M \quad \mu = \mu_N$ 

Arreno quindi:  $la_{1}N_{1}(\sigma; +\mu_{0}) = e \times p\left\{\frac{\pi i}{2w_{1}w_{2}}\left[\left(\Gamma_{1} + \mu_{0} - w\right) - \frac{w_{1}^{2} + w_{2}^{2}}{12}\right]\right\}$   $\text{ right}\left[\left[\omega\left(\Delta_{1}^{-1}\right) + \sigma\right] + \sigma\right] + \left(\mu\right)\right]^{2} - \frac{w_{1}^{2} + w_{2}^{2}}{12}$ 

lim  $\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left[\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left[\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left[\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left[\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left[\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left[\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left[\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left(\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left(\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]$   $\lim_{N\to\infty}\Gamma_{N}(\sigma_{i}+\mu_{N})=\exp\left[s_{i}m(m')\frac{\pi_{i}i}{2u_{i}u_{2}}\left(\left[u(\Delta_{H}I)+\sigma_{i}^{2}+\left(m+m_{B}-m_{A}N_{F}\right)\right]-\frac{u_{i}^{2}+u_{2}^{2}}{12}\right]$ 

Mettendoli insieme attemps: (i quedrati si concellano per via alel meno melle mane. Solo doppi prodotti)

 $= \frac{\pi^{i}}{2u_{i}u_{1}} \left[ \left( 4u_{i}(\Delta_{n-1})m_{+} + 4u_{i}(\Delta_{n-1})\sigma_{i} + 4u_{i}(\Delta_{n-1})m_{B} - 4\sigma_{i}(m_{+}N_{F}) - 4(m_{+}m_{B})(m_{+}N_{F}) \right) - \frac{u_{i}^{2}tu_{2}^{2}}{6} \right]$ 

La condizione di R-Symmetry anomaly e de modificare.

 $= \frac{1}{2} \mu_{0} + \nu_{0} = \frac{1}{2} \left( \sum_{k=1}^{\infty} \sum_{k=1}^{\infty} \left( \sum_{k=1}^{\infty} \sum_{k=1}^{\infty}$ 

 $\longrightarrow W \left( N_c \Delta_X + N_F (I-\Delta) + (I-\Delta_M) \right) = 2W \left( N_F \Delta + \Delta_M \right)$  $w(N_{c}\Delta_{x}+N_{F}+1)=3w(N_{F}\Delta+\Delta_{n})$ 

Per Antonio arrei:  $\omega(\Delta_{n-1}) = \omega(N_{F}(\Delta_{-1}) + N_{C}\Delta_{\times}) \longrightarrow \omega(N_{F}(\Delta_{-1}) + N_{C}\Delta_{\times} + (1-\Delta_{n})) = 0$