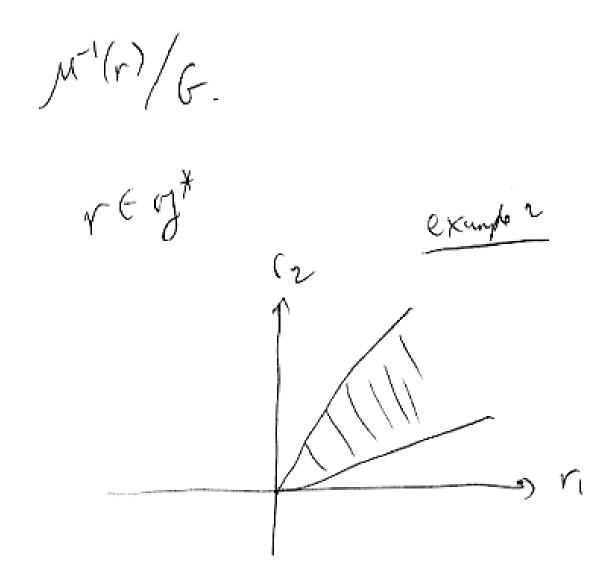
Instanton Suns and Monodrony Lecture 3

p: G- umon, W(x1,-,Xn) Ginnant.



typology of M-1(1)/6, construct

Set of coordinate charts method

regions.

(= -4/x6/2 + /x3/2+/x4/2+/x5/2+/x6/2 "Seconday San" à le fan strictre en og*.

m-1(r)/6 = 0" \3(r)/6 3(r) = () * (X; =0) I c {1, -, n} Jecl(r) (=) {Missies shut a

Shut of the (condinates

In any Gurdinate.

One feature from physics: 1-long correction, complete determines location of system long. parameter (coets of W)

hut re

bosomic potential:
$$(1 - \frac{1}{2e^{\nu}} \sum_{i} (D_{\alpha})^{2} + \sum_{i} |\frac{\partial w}{\partial q_{i}}|^{2} + 2 \sum_$$

I = D, D-1/2 Ja = lowest componet Zaly2. For generic values it (411's (of pounters) we get pue de Hermitian form in the space of 6's to minimize, Ja=0. For special Values, pos. Semi-definite.

Directore regulated with a cutoff: -> effective description of They in 0's. conclusion about parameter values: 2TiCa = # ZQ(by (ZQb)) (assoc + gmp ()

can be singularities associal strongers c'sca-Example 1

9 = e 2 trica = 11 (ZQi6)

1 = e 2 trica = 11

Example 1
$$\frac{X \cdot o \quad X_1 - - x_5}{-5 \cdot 1 \cdot 1 \cdot - - 1}$$

$$q = (-50)^{-5} \quad \sigma' \quad \sigma' \quad \sigma' \quad \sigma' = (-5)^{5}$$

Preducted singularly of physics of
$$g = (-5)^{-5}$$
.

Correlation further (last how)

 $\frac{5}{155}$.

$$\frac{\text{Example 2}}{G} = \frac{x_0 \times_1 \times_2 \times_3 \times_4 \times_- \times_6}{-4 \times_0^{-1} \times_0^{-1}$$

$$\frac{-\frac{1}{9!} - \frac{1}{(-4)^{(-4)}} (\sigma_1 - 262)}{9!} = (-4)^{(-4)} (1-2)^{(-2)}$$

$$\frac{9!}{9!} = (-4)^{(-4)} (1-2)^{(-2)}$$

$$\frac{G_{2}}{G_{1}} = \frac{1 - 4^{4} g_{1}}{2}$$

$$\frac{1 - 4^{4} g_{1}}{2}$$

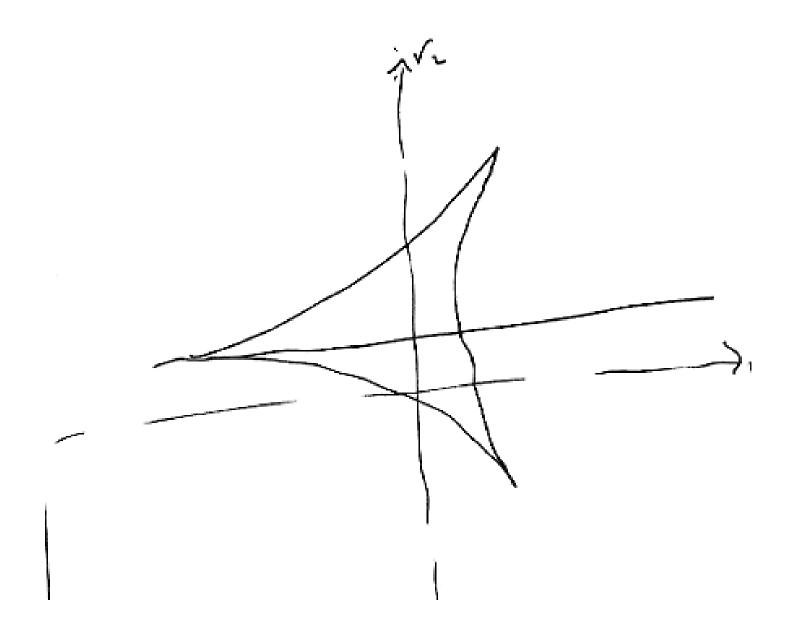
$$\frac{1 - 4^{4} g_{1}}{2}$$

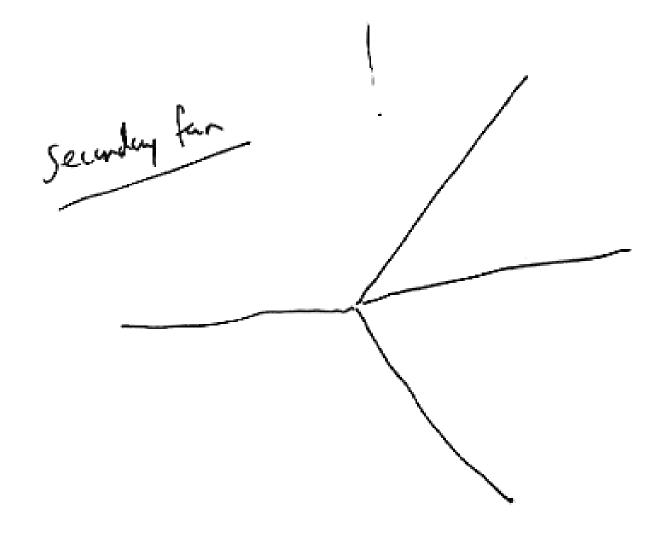
$$\frac{(1 - 4^{4} g_{1})^{2}}{(4^{4} g_{1})^{2}}$$

$$\frac{1}{4^{2} g_{1}^{2} g_{2}} = \frac{(1 - 4^{4} g_{1})^{2}}{(1 - 4^{4} g_{1})^{2}}$$

$$\frac{C' = (gen - ly exp 32)}{92 = 56 56^{2} (-20)^{-2} = (-2)^{-2}}$$

$$\frac{92}{92} = \frac{56 56^{2} (-20)^{-2}}{92 - \frac{1}{4}}$$





Instantan moduli spaces.

$$\chi_i = f_i(s,t)$$
 where $f_i(s,t)$ deg $f_i = di$.

Requirement: $\vec{\eta}$ = dual case to the case in 2nd fan in which r liver-

X. (s,t) of dyes di fi(s,t)= 1/2 fi(s) sittis { fis)} are hangeneus crows on Instruction model space. (Facts on fis) as Hadran Xi. For ads in sure way.

$$X = C^{n} \cdot 3(t^{n})/G_{G}.$$

$$3(t^{n}) = \bigcup_{i \in I} \bigcap_{i \in I} 3(x_{i}^{n})^{2}$$

$$3(t^{n}) = \bigcup_{i \in I} \bigcap_{i \in I} 3(x_{i}^{n})^{2} = 0$$

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$$3(t^{n}) = 0$$

Provided that dr. 20, get the contributions to correlation functions.

(-K) Xm / m

Nan Man Miss

The any need of disco for some in
The TT (3) disco

 $3_{i}^{(5)} = c_{i}(3_{i}^{(5)} = 03_{i}^{(5)} = 03_{i}^{(5)}$ This (also class is mapt of 3.

liver relation

3; = 乙蛋Qina

Non linear relations

Prenow: \$\frac{3}{3}, -- \frac{3}{5} \tau = 0

New: (\frac{3}{3} \tau)^{\dist1} - (\frac{3}{3} \tau e)^{\dist1} = 0

Example 2

$$\sqrt{n} < \eta_1^3 - j \eta_2^5 K^{4n_1+1} \times \eta_1^2 / \eta_1^4$$
 $(K = -4\eta_1)$.

 $\chi_j^{n} = \sqrt{2} 4^{4n_1+1} / \eta_1^4 / \eta_2^4 / \eta_1^4$
 $\chi_j^{n} = \sqrt{2} 4^{4n_1+1} / \eta_1^4 / \eta_1^4 / \eta_2^4 / \eta_1^4$

Using relations $(3_1)^{d_1+1}(3_2)^{d_2+1} = \eta_2^{d_1+d_1+2} = 0$ (3,) dot! (8,) dut! (8,) dot! (3,) dit! = nds +dy +ds+) (n-2n) dot! and some Constitutions.

$$X_{0} = \frac{1}{2} \frac{2^{8n_{1}+2n_{2}+3-j} \left(\frac{n_{1}+1-j}{2n_{2}+1-j}\right) \frac{1}{2^{n_{1}}} \frac{n_{1}}{2^{n_{1}}}}{2n_{2}+1-j}$$

$$X_{0} = \frac{8}{\Delta} \qquad \Delta = \left((-2^{8}2)^{2} - 2^{68}2^{4}2^{2}\right)$$

$$X_{1} = \frac{4(1-2^{4}2)}{\Delta}$$

Another set of correlation functions: W = 0. discriment laws for W, as a function of parameters; is D(1-492) (Example 2.