$$\begin{split} g(p_1)^{A}(2) g(x)^{2} &= Z = H \oplus H(x) \rightarrow \operatorname{regular summary dayset} \\ The q-oper value when read so A(x) = \begin{pmatrix} x + h_{x} \\ x + h_{y} \\ x + h_{y} \end{pmatrix} \\ \begin{aligned} &= \begin{pmatrix} x + h_{y} \\ x + h_{y} \\ x + h_{y} \end{pmatrix} \\ \end{aligned} \\ \begin{aligned} &= \begin{pmatrix} y + (m_{1}, n_{1}) - qner & add & fm & fer & for & (A_{1}, E_{1}, L_{2}, L_{2}, L_{2}) \\ &= \begin{pmatrix} y + (m_{1}, n_{1}) - qner & add & fm & for & (A_{1}, E_{2}, L_{2}, L_{2}, L_{2}) \\ &= \begin{pmatrix} y + (m_{1}, n_{1}) - qner & add & fm & for & (A_{1}, E_{2}, L_{2}, L_{2}, L_{2}) \\ &= \begin{pmatrix} y + (m_{1}, n_{1}) - qner & add & fm & for & (A_{1}, E_{2}, L_{2}, L_{2}, L_{2}) \\ &= \begin{pmatrix} y + (m_{1}, n_{1}) - qner & add & fm & for & (A_{1}, E_{2}, L_{2}, L_{2}, L_{2}) \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & add & fm & for & (A_{1}, E_{2}, L_{2}, L_{2}) \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & add & fm & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & add & fm & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & add & fm & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & fm & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & gner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & gner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & gner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & gner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & fm & gner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & gner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, n_{2}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, m_{1}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, m_{1}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, m_{1}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, m_{1}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, m_{1}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, m_{1}) - qner & gner \\ &= \begin{pmatrix} y + (m_{1}, m_{1}) - qner & gne$$

q-connection can be expressed as follows: A (Z) = Mg(Z)<sup>2</sup> e J.(Z)

$$g_{i}(z) = \xi_{i} \frac{Q_{i}^{\dagger}(qz)}{Q_{i}^{\dagger}(z)}$$

$$\begin{split} & \text{Back and Emansfer remained.} \\ & \underline{\text{Reg.}:} \quad A \mapsto A^{(2)} = e^{\frac{1}{2} (4\pi) f_{1}^{2} (A_{2})} e^{-\frac{1}{2} (2\pi) f_{1}^{2}}, \quad f_{1}^{(2)} (f_{1}) = \frac{4}{4} \int_{1}^{2} (2\pi) \int_{1}^{2} (4\pi) e^{-\frac{1}{2} (4\pi)}, \quad f_{1}^{(2)} (f_{1}) = \frac{4}{4} \int_{1}^{2} (2\pi) \int_{1}^{2} (4\pi) e^{-\frac{1}{2} (4\pi)}, \quad f_{1}^{(2)} (f_{1}) = \frac{4}{4} \int_{1}^{2} (2\pi) \int_{1}^{2} (4\pi) e^{-\frac{1}{2} (4\pi)}, \quad f_{1}^{(2)} (f_{1}) = \frac{4}{4} \int_{1}^{2} (2\pi) \int_{1}^{2} (4\pi) e^{-\frac{1}{2} (4\pi)}, \quad f_{1}^{(2)} (f_{1}) = \frac{4}{4} \int_{1}^{2} (2\pi) \int_{1}^{2} (4\pi) e^{-\frac{1}{2} (4\pi)}, \quad f_{2}^{(2)} (f_{1}) = \frac{4}{4} \int_{1}^{2} (2\pi) \int_{1}^{2} (4\pi) e^{-\frac{1}{2} (4\pi)}, \quad f_{2}^{(2)} (f_{1}) = \frac{4}{4} \int_{1}^{2} (2\pi) \int_{1}^{2} (4\pi) \int_{1}^{2} (4\pi)$$

Th: Wwo-generic Minra - Plücher gaper is Minrag-oper. [LG QQ system <=> (Gq) goers (5) Integrability L Dualities: Gusider (SL(2), q) - oper S(2) A Z S(q2) = pA(2)

$$\begin{aligned} & (t + S(2)) = \begin{pmatrix} Q_{+}(2) \\ Q_{-}(2) \end{pmatrix}, \quad Z_{-} \begin{pmatrix} \xi & 0 \\ 0 & \xi^{-1} \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \Pi(1) \\ \eta_{-}(2) \end{pmatrix}, \quad Z_{-} \begin{pmatrix} \xi & 0 \\ 0 & \xi^{-1} \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \Pi(1) \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) \end{pmatrix}, \quad \Lambda(2) = \begin{pmatrix} I \\ \eta_{-}(2) \end{pmatrix}, \quad \Lambda(2) \end{pmatrix},$$

) Calculate the determinant = Qb -system ( is equivalent to 
$$A(2) \sim Z$$
)  
 $\overline{\xi}^{-1}Q_{+}(2)Q_{-}(92) - \overline{\xi}Q_{+}(92)Q_{-}(2) = (\overline{\xi}^{-1} - \overline{\xi})A(2)$ 

$$XX2 \quad Bette equeliens: \qquad Q_{\tau} = \prod_{k=1}^{m} (2 - w_k)$$

$$\prod_{h=1}^{m} \frac{w_k - q^{2h}}{w_k - 2h} = \sum_{j=1}^{2} \prod_{w_k}^{m} \frac{qw_{m} - w_j}{w_k - qw_j}, \qquad k = 1..., m$$

2) Det: We call Z-tuisted Miara (SL(reilig)-quer caumiral if  
i) Z-regular semisimple  
2) deg D<sub>4</sub> = K  
3) No other singularities except for the rates of 
$$\Lambda(2) = D_{rei}(2)$$
  
which are distinct.  
Proposition:  $\{2;(2)\}_{i=1,...,v+i}$  are of degree 1.

 $\begin{aligned} & \text{Gussidler Gaussiacel} \left( \begin{array}{c} SL(2) & q \end{array} \right) - q \text{per} \\ & R_{+} & (2) = & 2 - P_{1} \\ & R_{2} & (2) = & (2 - \alpha_{1})(2 - \alpha_{2}) \\ & R_{-}(2) = & 2 - P_{2} \\ & M(2) = & \left( \begin{array}{c} 2 - P_{1} \\ 2 - P_{2} \end{array} \right) \begin{array}{c} S(2q - P_{1}) \\ Z - P_{2} \end{array} \right) = & 2 \\ & \left( \begin{array}{c} 1 \\ 2 \\ q \end{array} \right) - \begin{pmatrix} P_{1} \\ P_{1} \\ P_{2} \\ P_{2} \end{array} \right) \\ & = & 2 \cdot V + M(0) \end{aligned}$   $= & 2 \cdot V + M(0)$ 

$$\frac{det}{det} \left( 2 + M(0) \cdot V^{-1} \right) = \Lambda(2) \qquad \text{speakral curve for } fRS!$$

$$\frac{Clarim:}{2} = -M(0) V^{-1} = \left( \frac{\xi - q\xi}{\xi - \xi} P_{1} - \frac{(q-1)\xi}{q(\xi - \xi^{-1})} P_{1} \right)$$

