

$$q_{12}^{(0)} \exp(\beta'_{12} \mathbf{z})$$

$$q_{23}^{(0)} \exp(\beta'_{23} \mathbf{z})$$

$$q_{34}^{(0)} \exp(\beta'_{34} \mathbf{z})$$

1. 0-1 damaged joints

2. 1-4 damaged joints

3. 5-9 damaged joints

4. 10+ damaged joints