









An example

















*B*

1

$\beta_2$







$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$$

0

1

1

0

Consider the function  $\Psi(\lambda) \equiv [\psi_+(x, t; \lambda), \psi_-(x, t; \lambda)]$ .

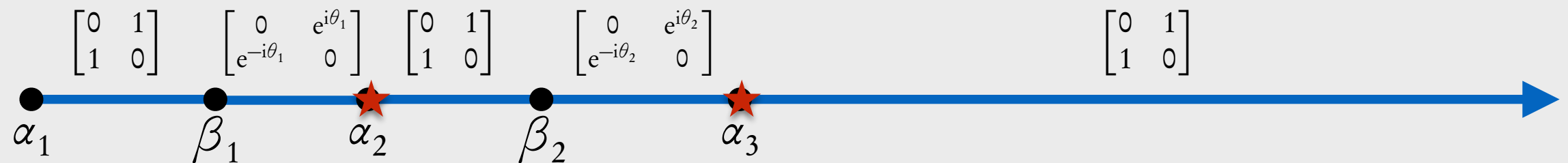
$$\begin{bmatrix} 0 & e^{i\theta_1} \\ e^{-i\theta_1} & 0 \end{bmatrix}$$

$$\begin{bmatrix} 0 & e^{i\theta_2} \\ e^{-i\theta_2} & 0 \end{bmatrix}$$

$$\check{\Psi}(\lambda)=\left[\frac{\phi_+(x,t;\lambda)}{\tilde{\phi}_+^{\sim}(x,t;\lambda)},\frac{\phi_-(x,t;\lambda)}{\tilde{\phi}_-^{\sim}(x,t;\lambda)}\right]$$

# An example

Consider the function  $\Psi(\lambda) = [\psi_+(x, t; \lambda), \psi_-(x, t; \lambda)]$ .



$$\check{\Psi}(\lambda) = \begin{bmatrix} \frac{\psi_+(x, t; \lambda)}{\tilde{\psi}_+(x, t; \lambda)}, \frac{\psi_-(x, t; \lambda)}{\tilde{\psi}_-(x, t; \lambda)} \end{bmatrix}$$



# A normalized RHP

$$M(\lambda) = \check{\Psi}(\lambda)G(\lambda), \quad M(\lambda) = [1, 1](1 + o(1)).$$

