Contents

- R -> R
- R->L
- L -> R
- L->L

```
clear all; clc;
E_in = [1;0];
```

R -> R

```
J_ret0 = J_ret(pi/4, pi/2);
J_ret1 = J_ret(-pi/4, pi/2);
J_pol1 = J_pol(0);
E_ut1 = J_pol1*J_ret1*J_ret0*E_in
I_1 = (abs(E_ut1(1)))^2 + (abs(E_ut1(2)))^2
```

```
E_ut1 =

-0.0000 + 1.0000i
0.0000 + 0.0000i

I_1 =

1
```

R -> L

```
J_ret0 = J_ret(pi/4, pi/2);
J_ret1 = J_ret(pi/4, pi/2);
J_pol1 = J_pol(0);
E_ut2 = J_poll*J_ret1*J_ret0*E_in
I_2 = (abs(E_ut2(1)))^2 + (abs(E_ut2(2)))^2
```

```
E_ut2 =
    1.0e-15 *
    -0.2220 + 0.0555i
    0.0000 + 0.0000i

I_2 =
    5.2385e-32
```

L -> R

```
J_ret0 = J_ret(-pi/4, pi/2);
J_ret1 = J_ret(-pi/4, pi/2);
J_pol1 = J_pol(0);
E_ut3 = J_pol1*J_ret1*J_ret0*E_in
I_3 = (abs(E_ut3(1)))^2 + (abs(E_ut3(2)))^2
```

```
E_ut3 =
    1.0e-15 *
    -0.2220 + 0.0555i
    0.0000 + 0.0000i

I_3 =
    5.2385e-32
```

L -> L

```
J_ret0 = J_ret(-pi/4, pi/2);
J_ret1 = J_ret(pi/4, pi/2);
J_pol1 = J_pol(0);
E_ut4 = J_pol1*J_ret1*J_ret0*E_in
I_4 = (abs(E_ut4(1)))^2 + (abs(E_ut4(2)))^2
```

```
E_ut4 =

-0.0000 + 1.0000i
0.0000 + 0.0000i

I_4 =

1
```

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