

```
In[*]:= {X+, X-} // FullForm
```

```
Out[*]//FullForm=
```

```
List[SubPlus[X], SubMinus[X]]
```

```
In[*]:= Kas[x_X] := Module[{v = 2 u^2 - 1, fs, s, m, ηs},
  fs = List@@x; s = PositiveQ@x;
  fs *= If[s, {-1, 1, 1, -1}, {-1, -1, 1, 1}];
  m = If[s,  $\begin{pmatrix} v & u & 1 & u \\ u & 1 & u & 1 \\ 1 & u & v & u \\ u & 1 & u & 1 \end{pmatrix}$ , -  $\begin{pmatrix} 1 & u & 1 & u \\ u & v & u & 1 \\ 1 & u & 1 & u \\ u & 1 & u & v \end{pmatrix}$ ];
  ηs = η# & /@ fs; CF@ΣB[fs][If[s, -1, 1], PQ[{}], ηs*.m.ηs]]
```

```
In[*]:= TL[x_X] := Module[{t = 1 - ω, r, fs, s, m, ηs},
  r = t + t*; fs = List@@x; s = PositiveQ@x;
  fs *= If[s, {-1, 1, 1, -1}, {-1, -1, 1, 1}];
  m = If[s,  $\begin{pmatrix} -r & -t & 2t & t^* \\ -t^* & 0 & t^* & 0 \\ 2t^* & t & -r & -t^* \\ t & 0 & -t & 0 \end{pmatrix}$ ,  $\begin{pmatrix} 0 & t & 0 & -t \\ t^* & r & -t & -2t^* \\ 0 & -t^* & 0 & t^* \\ -t^* & -2t & t & r \end{pmatrix}$ ];
  ηs = η# & /@ fs; CF@ΣB[fs][0, PQ[{}], ηs*.m.ηs]]
```