```
Kas[X[i_, j_, k_, l_]] :=
 If[PositiveQ@X[i, j, k, l],
  Kas[Perm[{-i, j, k, -l}],
   PQ[Subspace[{y_-i, y_j, y_k, y_-l},
     {y_-i, y_j, y_k, y_-l}],
    1/2 (η_-i^2 + 2 u η_-i η_j + v η_j^2 + 2 η_-i η_k + 2 u η_j η_k +
       η_k^2 + 2 u η_-i η_-l + 2 η_j η_-l + 2 u η_k η_-l + v η_-l^2)]],
  Kas[Perm[{-i, -j, k, l}],
   PQ[Subspace[{y_-j, y_k, y_l, y_-i},
     {y_-j, y_k, y_l, y_-i}],
    1/2 (-v η_-i^2 - 2 u η_-i η_-j - η_-j^2 - 2 η_-i η_k -
       2 u η_-j η_k - v η_k^2 - 2 u η_-i η_l - 2 η_-j η_l -
       2 u η_k η_l - η_l^2)]]
 ]
```