

Pensieve header: An implementation of the simplest invariant of Fiedler's arXiv:2211.10734, Polynomial Invariants Which Can Distinguish the Orientations of Knots.

```
In[*]:= Fi[Xi,j] := F[
  {ti, tj, hi, hj}, (* the skeleton and boundary, going counterclockwise *)
  bi aj, (* the linking matrix*)
  <| (* For each closure, specified by the order in which tails (incl t∞) are visited,
    a linking functional for the complement. *)
    {ti, tj, t∞} →
      x[c11 λi,i + c12 λi,j + c13 λi,∞ + c21 λj,i + c22 λj,j + c23 λj,∞ + c31 λ∞,i + c32 λ∞,j + c33 λ∞,∞],
    {tj, ti, t∞} → 0
  |>
]
```

```
In[*]:= Fi[Xi,j]
Out[*]:= F[{ti, tj, hi, hj}, aj bi,
  <| {ti, tj, t∞} → x[c11 λi,i + c12 λi,j + c13 λi,∞ + c21 λj,i + c22 λj,j + c23 λj,∞ + c31 λ∞,i +
  c32 λ∞,j + c33 λ∞,∞], {tj, ti, t∞} → 0 |> ]
```