

Implementing $f^{\sigma[3,4,2,1]}$:

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(t_{i,j} f_-)^{p-\sigma} := CF[t_{p[[i]],p[[j]]} (f / . x_{k_-} \Rightarrow x_{p[[k]]})];
(f_-)^{p-\sigma} /; FreeQ[f, t] := CF@Module[{i, j},
  Sum[
    If[p[[i]] < p[[j]], 0, t^{i,j} \frac{f / . \{x_i \rightarrow x_{p[[i]]} - \bar{x}_{p[[i]]}, x_j \rightarrow x_{p[[j]]} - \bar{x}_{p[[j]]}, x_{k_-} \Rightarrow x_{p[[k]]}\}}{x_{p[[i]]} - \bar{x}_{p[[j]]}}],
    {i, Length[p] - 1}, {j, i + 1, Length[p]}
  ]
]

```