```
lhs =
  ∫ (𝔼 [𝕚 π_i p_i + 𝕚 π_j p_j + 𝕚 π_k p_k] ×
      ℒ /@ (X_{i,j}[1] X_{i+1,k}[1] X_{j+1,k+1}[1]))
    𝕕{p_i, p_j, p_k, x_i, x_j, x_k, p_{i+1}, p_{j+1}, p_{k+1}, x_{i+1},
      x_{j+1}, x_{k+1}};
rhs =
  ∫ (𝔼 [𝕚 π_i p_i + 𝕚 π_j p_j + 𝕚 π_k p_k] ×
      ℒ /@ (X_{j,k}[1] X_{i,k+1}[1] X_{i+1,j+1}[1]))
    𝕕{p_i, p_j, p_k, x_i, x_j, x_k, p_{i+1}, p_{j+1}, p_{k+1}, x_{i+1},
      x_{j+1}, x_{k+1}};
lhs == rhs
```