

```

variables = Association[
  "indVars" -> {n, t},
  "depVars" -> {m, v},
  "elimOrder" -> "explicitimplicit",
  "scheme" -> {-(v[n, t + 1] -
    v[n, t]) + (v[n + 1, t+1]^2/2 - m[n + 1, t+1]^2/2) - (v[n, t+1]^2/2 -
    m[n, t+1]^2/2),
    m[n, t + 1] -
    m[n, t] - (m[n + 1, t]*v[n + 1, t]) + (m[n, t]*v[n, t])}
];
DiscreteConservedQOperator[variables][{v[n, t], m[n, t]}]

```