

From Projects/  
MetaMonoids/LetaStudy.nb

```
Bu[ηs_List, B[ω_, μ_]] := Module[{λ},
  λ = (1 + Coefficient[μ, #] /. t_ → 1) & /@ ηs;
  Bu[ω,
    Thread[ηs → λ],
    -μ + (ηs /. h_2_ => t_2 h_2) . λ
  ] // βCollect
];
```

← λ is column sums + 1

negate & make column sums equal 1 by adding to the diagonal.

```
βMVA[Bu[ω_, λ_, μ_]] := Module[
  {lbls, mat},
  lbls = Rest[First /@ λ];
  mat = Outer[
    Coefficient[μ - lbls.(lbls /. h_2_ => t_2), #1*#2] &,
    lbls, lbls /. h_2_ => t_2
  ];
  Print[mat];
  Print[{ω, Det[mat]}];
  ω * Det[mat] / (1 - λ[[1, 1]] /. h_i_ → T_i) // Factor
];
```

} subtract 1 from diagonal.

$\frac{\omega \cdot \det'}{1 - T_{1,1}}$  ← det of (n-1) x (n-1) matrix

```
βMVA[L_Link] := βMVA[Bu[h# & /@ (First /@ Skeleton[L]), βZ[L]]]
```

```
βMVA[L_Link] := Module[
  {ηs, ω, μ, M},
  {ω, μ} = List @@ βZ[L];
  ηs = Rest[h# & /@ (First /@ Skeleton[L])];
  M = Outer[
    Coefficient[μ - (μ /. t_ → 1 /. h_2_ => t_2 h_2), #1*#2] &,
    ηs, ηs /. h_2_ => t_2
  ];
  Factor[ $\frac{\omega \text{Det}[M]}{1 - T_{\text{Skeleton}[L][[1,1]}}$ ]
]
```

From Projects/  
MetaMonoids/LetaStudy-2.nb