

CartanMatrix[A1]

{ {2} }

Weights[A1, Irrep[A1][{3}]] = .

Profile[Weights[A1, Irrep[A1][{3}]]]

Unset::norep : Assignment on Weights for Weights[A₁, Irrep[A₁][{3}]] not found. >>

\$Failed

{ {3}, {1}, {-1}, {-3} }

Table[AbsoluteTiming[With[{Γ = A1, λ = {k}},

With[{V = Irrep[Γ][λ]},

(*Associator[Γ, V, V, V, FundamentalBasis] = *) Associator[Γ, V, V, V, FundamentalBasis]

(*Inverse[Associator[F4, V, V, V, FundamentalBasis]] =

Inverse[Associator[F4, V, V, V, FundamentalBasis]]];

Inverse[Associator[F4, V⊗V, V, V, FundamentalBasis]] =

Inverse[Associator[F4, V⊗V, V, V, FundamentalBasis]];*)

]

];][[1]], {k, 5, 10}]

{0.265919, 0.504740, 0.948727, 1.502138, 2.420837, 3.623274}

Profile[With[{Γ = A1, λ = {15}}, With[{V = Irrep[Γ][λ]},

Associator[Γ, V⊗V, V, V, FundamentalBasis]

]]];]

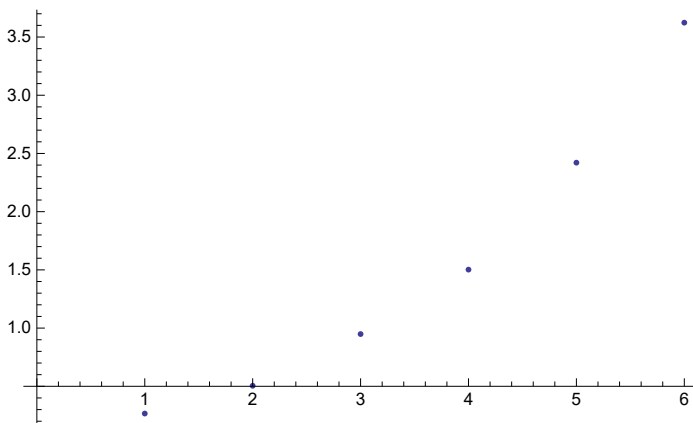
Profile[With[{Γ = F4, λ = {0, 0, 0, 1}}, With[{V = Irrep[Γ][λ]},

Associator[Γ, V⊗V, V, V, FundamentalBasis]

]]];]

\$Aborted

ListPlot[%]




```
{0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0},
{0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1}}]
```