

```

SetAlgebra[gln,ε] := (
  $Algebra = gln,ε;
  $Basis = Flatten@{
    Table[yα,β, {β, 2, n}, {α, 1, β - 1}],
    Table[xα,β, {β, 1, n}, {α, 1, β}]
  };
  (*$Basis=Reverse@SortBy[$Basis,If[#[[1]]==x,{0,#[[3]]-#[[2]]},{1,#[[2]]-#[[3]]}]]&];*)
  NilQ[y__] = True; NilQ[xα,β] := (α != β); (* Nilpotent Q *)
  $PBWRule = Thread[$Basis → Range@Length[$Basis]];
  B[xi,j, xk,l] := δj,k xi,l - δl,i xk,j;
  B[yi,j, yk,l] := CF[-ε δj,k yi,l + ε δl,i yk,j];
  B[xi,j, yl,k] := CF[δj,k xi,l - δl,i xk,j /. xα,β => If[α ≤ β, ε xα,β, yβ,α]];
  DefRep[0] = Normal@SparseArray[{}, {n, n}];
  DefRep[ε_] := ε /. {
    xα,β => Normal@SparseArray[{α, β} → 1, {n, n}],
    yα,β => Normal@SparseArray[{β, α} → ε, {n, n}]
  }
);

```