Anharmonic Group Elements as Generated by Machine

Ed Rogers

March 2011

$$
\begin{aligned}
[-X, H_0] \;=\; & \lambda^2(6{\cdot}\beta_{21})(B^6 + A^6) + \lambda^2(6{\cdot}\beta_{15})(B^6 - A^6) \\
& + \lambda^2(4{\cdot}\beta_{22})(B^5 A + BA^5) + \lambda^2(4{\cdot}\beta_{16})(B^5 A - BA^5) \\
& + \lambda^2(2{\cdot}\beta_{23})(B^4 A^2 + B^2 A^4) + \lambda^2(2{\cdot}\beta_{17})(B^4 A^2 - B^2 A^4) \\
& + \lambda(4{\cdot}\beta_{8})(B^4 + A^4) + \lambda(4{\cdot}\beta_{5})(B^4 - A^4) \\
& + \lambda^2(4{\cdot}\beta_{24})(B^4 + A^4) + \lambda^2(4{\cdot}\beta_{18})(B^4 - A^4) \\
& + \lambda(2{\cdot}\beta_{9})(B^3 A + BA^3) + \lambda(2{\cdot}\beta_{6})(B^3 A - BA^3) \\
& + \lambda^2(2{\cdot}\beta_{25})(B^3 A + BA^3) + \lambda^2(2{\cdot}\beta_{19})(B^3 A - BA^3) \\
& + \lambda(2{\cdot}\beta_{10})(B^2 + A^2) + \lambda(2{\cdot}\beta_{7})(B^2 - A^2) \\
& + \lambda^2(2{\cdot}\beta_{26})(B^2 + A^2) + \lambda^2(2{\cdot}\beta_{20})(B^2 - A^2)
\end{aligned}
$$