## Affine Lie algebras and applications

 Ten-minutes problem 6Let $A=\left(\begin{array}{cc}2 & -2 \\ -2 & 2\end{array}\right)$. Compute the canonical central element and the basic imaginary root. Compute the values of the invariant form on the standard basis vectors of $\mathfrak{h}$ and $\mathfrak{h}^{*}$.

