## Representations of affine and vertex operator algebras

 Ten-minutes problem 1Compute

$$
\left\langle\left(a_{-3}\right)^{2}\left(a_{-5}\right)^{4}\left(a_{-7}\right)^{5} v,\left(a_{-3}\right)^{2}\left(a_{-5}\right)^{4}\left(a_{-7}\right)^{5} v\right\rangle
$$

where $v$ is the highest weight vector of the Fock module $\pi_{\mu, k}$ and $\langle\cdot, \cdot\rangle$ is the invariant form normalized by $\langle v, v\rangle=1$.

