

$$\begin{array}{cccc}
0 & 1 & n & n+1 \\
\alpha^+ | \sqrt{\frac{(n+1)!}{n!}} |_{q,q}
\end{array}$$

Figure 1: Classical Fock space

$$\begin{array}{cccc}
0 & 1 & n & n+1 \\
a | \frac{[n+1]}{[n]} |_q
\end{array}$$

Figure 2: Bargman-Fock representation.

State “ n ” is z^n and $a^+ \rightarrow z$; $a \rightarrow D_q$ with $D_q(f) = \frac{f(qz)-f(z)}{z(q-1)}$

$$\begin{array}{cccc}
0 & 1 & n & n+1 \\
\alpha^+ | \frac{[n+1]}{[n]} |_{q,q}
\end{array}$$

Figure 3: General setting: in order that the Fock space be bounded below, one must have $\alpha_0 = 0$.