$$\begin{array}{c}
\lambda^{-2} \\
\downarrow \\
1 \xrightarrow{b} \\
\downarrow \\
b \\
\lambda^{-2} \xrightarrow{a} \\
\downarrow \\
b \\
\lambda^{-3}
\end{array}$$

$$\begin{array}{c}
\lambda^{-3} \\
\downarrow \\
\lambda^{-5} \\
\downarrow \\
\lambda^{-5} \\
\downarrow \\
\lambda^{-6}
\end{array}$$

The invariant probability measure on the Fibonacci shift (λ = the golden ratio).

Circled nodes represent elements from the language $L = \{w \in \{a, b\}^* \mid |w|_a \equiv$

 $0 \mod 2$.