- Fill the nonempty atoms of the information diagram with arbitrary nonnegative numbers $a, b, \cdots, g$.

- Theorem 3.11 says that there exist r.v.'s X, Y, and Z whose I-measure μ^* is as shown.

- This can be seen by considering mutually independent r.v.'s $A, B, \cdots, G$ with entropies $a, b, \cdots, g$, respectively, and let

$$
\begin{aligned}
X &= (A, B, C, D) \\
Y &= (B, D, E, F) \\
Z &= (C, D, F, G).
\end{aligned}
$$