

$$1 = C$$
[illegible]

The diagram illustrates the decomposition of the tensor product of two irreducible representations of $SU(3)$. The top row shows the decomposition of the product of two fundamental representations (3 and 3) into a singlet (1) and an octet (8). The bottom row shows the decomposition of the product of two octet representations (8 and 8) into a singlet (1), a decuplet (10), and a 27-plet (27).

Diagram illustrating the construction of a 3D grid structure, showing four stages of growth:

- Stage 1: A single cube labeled 6.
- Stage 2: A 3x3x3 cube structure, labeled 6^- and 3^7 .
- Stage 3: A 3x3x3 cube structure with an additional 2x2x2 cube attached to one corner, labeled 6^- and 3^7 .
- Stage 4: A 3x3x3 cube structure with an additional 3x3x3 cube attached to one corner, labeled 6^- and 3^7 .

Diagram illustrating a 3D Young diagram with three columns. The boxes are labeled with numbers, and the columns are labeled with partitions: 6^- , 3^7 , 6^- , 3^7 , 6^- for the first column; 6^- , 3^7 , 6^- for the second; and 3^7 for the third. The top right corner is labeled $1, 2, 0$.

$$1, 2, 0.$$

3. *D.C. al Coda*