

Jingle Bell Rock

$$1 = C$$

Jim Boothe, Joe Beal

Diagram illustrating the construction of a 100-bit number from 100-bit blocks. The blocks are arranged in a sequence, and the corresponding mathematical expressions are shown below them.

Top row (blocks): 1 1 1 | 7 7 7 | 6 7 6 | 6 7 6 | 5 | 6 7 6 | 5 | 4

Bottom row (expressions): 1 | 7^{47} | 7^4 | 1 | 7^4 | 7^0 | 2^{-7} | 5^7

2.

Diagram illustrating a sequence of blocks (6, 6, 7, 5) and their corresponding powers (2⁷, 5⁷) on the left, and a sequence of blocks (1, 1, 1) and their corresponding powers (1, 1⁷) on the right, separated by a vertical line.

Diagram illustrating the decomposition of the tensor product of two 7-dimensional representations of $SU(8)$ into irreducible representations. The diagram is divided into four sections by vertical lines.

Section 1 (Leftmost): Shows the decomposition of the tensor product of two 7-dimensional representations into irreducible representations: $1 + 1 + 1 + 7 + 7 + 7$. Below this, the irreducible representations are listed: 1 and $1^{\Delta 7}$.

Section 2: Shows the decomposition of the tensor product of two 7-dimensional representations into irreducible representations: $6 + 7 + 6 + 3$. Below this, the irreducible representations are listed: 1^4 and 1 .

Section 3: Shows the decomposition of the tensor product of two 7-dimensional representations into irreducible representations: $6 + 7 + 6 + 3$. Below this, the irreducible representations are listed: 1^4 and b_7^7 .

Section 4 (Rightmost): Shows the decomposition of the tensor product of two 7-dimensional representations into irreducible representations: $6 + 5 + 6$. Below this, the irreducible representation is listed: 6^7 .

