

Prerequisites for the Group Theory course

Familiarity with different types of matrices, and knowledge of operations like matrix multiplication, similarity transformations, etc.

Familiarity with angular momentum algebra of quantum mechanics.

Familiarity with quark model and the eightfold way may be helpful.

A quick check for yourself:

Find out the number of independent elements of an $N \times N$ matrix which is
(i) orthogonal; (ii) unitary; (iii) hermitian.