Introduction

These tables were generated using **SCHUR** in response to a request by Prof. B. R. Judd who was interested in questions relating to the relevance of the exceptional group F_4 to the interpretation of the mathematical properties of matrix elements in the f^N atomic shell¹.

1. B. R. Judd, Applicability of the Lie group F_4 to the atomic f shell, J. Phys. B: At. Mol. Opt. Phys. **28** L203-207 (1995).