

Center for Quantum Science and Engineering (CQSE)

Weekly Seminar
June 11, 2010 (Friday)

Time: June 11, 14:30 ~ 15:30

Title: Quotient Algebras of $su(N)$ and Their Applications

Speaker: Prof. Zheng-Yao Su (蘇正耀)

NCHC and NTHU (國網中心/清華大學)

Place: Rm716, CCMS & New Physics Building, NTU

Abstract

In this talk, the structure of quotient-algebra partition universally embedded in the Lie algebra $su(N)$ will be introduced. In a quotient-algebra partition, the algebra $su(N)$ is divided into a certain number of abelian modules and each module behaves as a quaternion unit following a closure relation. This general scheme may yield several applications in quantum physics and yet we will focus mainly on subjects in quantum information science.

