

# SAIP2014



Contribution ID : 67

## **SO(N) restricted Schur polynomials**

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### **Abstract :**

Restricted Schur polynomials constitute a basis for the  $1/4$ -BPS sector of  $N = 4$  super Yang-Mills theory with a  $U(N)$  gauge group. Using the AdS/CFT correspondence, these operators are interpreted as certain D-brane states in the dual gravity theory in the large  $N$  limit. It is interesting to study whether or not restricted Schurs constitute a basis for the  $1/4$ -BPS sector of the theory with  $SO(N)$  gauge group. I present evidence that the counting of restricted Schurs matches the number of  $1/4$ -BPS states for  $SO(N)$ . I further discuss the possibility of the  $SO(N)$  restricted Schurs being orthogonal.

### **Award :**

YES

### **Level :**

PhD

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### **Paper :**

No

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