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SO(N) restricted Schur polynomials

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Abstract content (Max 300 words) **Formatting & Special chars**

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.

Apply to be considered for a student award (Yes / No)?

YES

Level for award (Hons, MSc, PhD)?

PhD

Main supervisor (name and email) and his / her institution

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Would you like to submit a short paper for the Conference Proceedings (Yes / No)?

No

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