

Surf

Almost formality of spin mfdg - Van Le

Def. A Poincaré algebra of degree  $n$  is a fin. dim alg graded alg  $H^\bullet = \bigoplus_{i=1}^n H_i$

Multi centered higher spin solutions

- 3d gravity as toy model
- topological
- tensionless limit of  $AdS_3 \times S^3 \times M_4$  strings
- Chern-Simons formulation vs metric one
  - quantum equivalence unclear
  - $SL(2, \mathbb{R})$  2 copies (CS fields  $A, \bar{A}$ )
- higher-spin: pick  $SL(N, \mathbb{R}) \times SL(N, \mathbb{R})$ 
  - + specify a grav sector by picking an embedding of  $SL(2, \mathbb{R}) \times SL(2, \mathbb{R})$  into it
  - $05 \quad \mathcal{U}(\mathfrak{sl}_n) / \langle C_2 - \lambda(\lambda-1) \rangle$
- in  $(S, x_+, x_-)$  we can describe asymptotic  $AdS_3$  if  $A_-|_0 = 0, \bar{A}_+|_0 = 0$

$W_n$  conformal blocks - G. Vasilakis  
- search for backreacted multi-centered solns.

Supersaturation and time-dependent integrals - G. Kibbi