

Abstract Submitted  
for the OSS15 Meeting of  
The American Physical Society

**Towards finding the single-particle content of two-dimensional adjoint QCD** UWE TRITTMANN, Otterbein University — The single-particle content of two-dimensional adjoint QCD remains elusive due to the inability to distinguish single- from multi-particle states. To find a criterion we compare several approximations to the theory. Starting from the asymptotic theory (no pair production, only singular operators), we construct sets of eigenfunctions in the lowest parton sectors of the theory. A perturbative treatment of the omitted operators is performed. We find that multi-particle states are absent if pair-production is disallowed. Evidence for a double Regge trajectory of single-particle states is presented.

Uwe Trittman  
Otterbein University

Date submitted: 27 Feb 2015

Electronic form version 1.4