

## Comment 4: Helicity Permutations

Almost all of the currently-known calculational techniques suggest that

$$A(+ - + - + - + - + - + -)$$

should be far more complicated than

$$A(- - - - - + + + + +).$$

However, our formula treats all helicity orderings (with fixed  $n$  &  $d$ ) democratically:

Once all of the roots have been found,

the various helicity orderings all follow

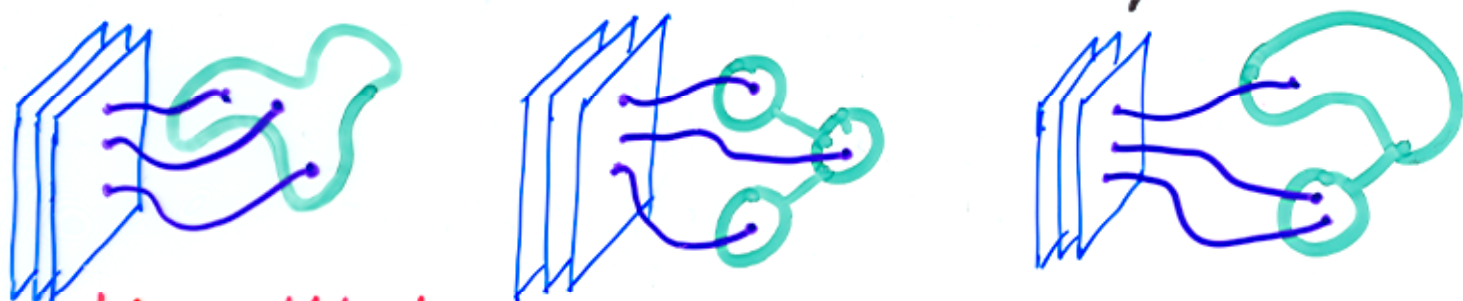
with equal effort because the choice of

helicity only enters in the fermionic

determinant  $|\det F|^4$  evaluated on the roots,

## Comment 5: Connected or Disconnected?

We considered only connected instantons, but why not disconnected, or partially connected?



= string worldsheet

Remarkably, we found that connected instantons alone reproduce the complete Yang-Mills amplitude. Cachazo, Svrcek & Witten used completely disconnected instantons to also reproduce Yang-Mills theory, and Bena, Bern & Kosower showed that "intermediate prescriptions" could be used as well!

Gukov, Mott & Neitzke argued that the equivalence of these prescriptions could be understood as arising from localization of the integral onto poles which are shared by the various moduli spaces.