

Stable Envelopes and Janus

A QFT Home For Some Geometric constructions

[Based on w.i.p. with N. Nekrasov]

I. Introduction

→ Study physical realizations of a few constructions in mathematics, namely by:

(a) Maulik-Okounkov, Aganagic-Okounkov, Okounkov-Smirnov, ... : Stable Envelopes, R-matrices



(b) Nakajima, Varagnolo :

$K_T(x)$,

$H_T(x)$,

$Ell_T(x)$

Interfaces

structures.

We work equivariantly w.r.t. $T \equiv T_F^{N=2} = T_F^{N=4} \times U(1)_h$ - max. torus of flavor gp.

Interested in $H_T(X_H)$, $K_T(X_H)$, $\text{Ell}_T(X_H)$

→ Must preserve (so no complex masses or complex FI !)













