

3 Main Ideas:

1. Rewrite k -orbital integrals as trace of Frobenius on cohomology of affine Springer fibres.
 2. Relate affine Springer fibre to the Hitchin fibre.
 3. Study cohomology of Hitchin fibres using the decomposition thm and the support thm.
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$$F = \mathbb{F}_q((t))$$