

Essentially -

c_{tj} : ~~the~~ central element
of field c_{tj}

$$A_{tj} = \{ \lambda(c_{tj}) > u \}$$

$\lambda(c_{tj})$ = volume
of cluster

$\rightarrow 0$ if no cluster

Then.

$$\sum_{i \in \mathcal{B}} 1[A_{tj}]$$

$$= \sum 1[A_{t0}] + \sum 1[A_{tj}] - 1[A_{t0}]$$

\rightarrow
 $= 0$ as $\forall j$ for small
enough ε
as then t_j to lie in the
same cluster.

can be used
using the probability
of 1 or more
local maxima

and labeled above by

issue: denominator also goes to 0

Need to show that the
density of ∇Y given $\sup Y$
is continuous