Contribution ID: **16**   Type: **not specified**

Singular Stochastic PDEs and Dynamical Field Theory Models

Wednesday, 10 June 2015 14:30 (1 hour)

There is considerable interest at present in Singular
Stochastic PDEs especially
in connection with Rough Path Theory in different guises. The mathematical
work started with results by Gianni Jona-Lasinio
and myself a long time ago. I will review what was was accomplished at
the time and the progress that
has been made since then. One reason for presenting this to this audience
is that there is, in my opinion, considerable scope
for rigorous renormalisation group work in this subject. I will also
attempt to prepare the ground for Gianni's talk to follow
on large deviations for singular SPDEs.

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