Stochertic rethods in Rayleith-Daniel 27/07/2015. Consolin models: Gendre Richards. unt veiter in doch. (n, + (n. V) + VP - V, An = g 0 xd d0 + (n. V0 - V2 00) dt = oder (n, 0) | t=0 = (n, 00). , V.u=0. (x,,-, nd-1)eπ N=(vi) E Rd d= 2, or 8, t20, v, v2>0, nlt,n)= (n; (t,n)) end, O(t,n) tempratur of find. 0 / mazi = Ti. To>> T, => turbulent correction. pourly redrived du Pr= 1/2 >> 1. 10+(n.70-10) dr= odw. Pr- "cravid nulus?", Ra-Rulish Curt. O € Ra , O ≤ xa ≤ 1. There equalin one physical, lappen in the fur etc. Main et wither 90 Da is Namor-Sholes. that. prop. of turbulent flow should conoge to in equilibrium. us t = 20, incles of minimal cond. & Work to kind whater there is an ergodic manne. D

The 1 [Földer, Glat - Helez, R.; Thomas 13] ne(x, xiz) e TP = odw = I kneikndbu, kkto, { Bult } = may . of ind Brownian inchors, k 2 Z2 a (possible) finite let. Assure hur. {(0,0), (0,1)} CE has me home. porum a runique inmint esogodic messure M. It. based on adaptors Hormorda's theory of hypuelliplicity to whate dimension (see [Heirer-Mattyly . '06, '08] L. Modume Nance-Stokes). fur CP: HATE. la gend, gran a Wollinger PME. (00) $\begin{cases} dh + F(n) dt = \sigma dw. \\ n(t=0) = mo \in H. \end{cases}$ For Y: H > IR, letting P, 4(no) = E (4(n4, no)), to me minique ergodicity.", mue snewly prigulis. & PDE . V(4, no) = P4 (Q(no). Smethis properly were the estimate. 11 DP+411 & c 11411+ 8(+1 119411., me 8(+1) =0 on 6=>0.

2)

for $F, G: H \Rightarrow H$, $[f, G] = Df(G) - DG(f): H \Rightarrow H$. $e_{H} = e_{H}(n) = e^{iH \cdot n}$.

Nower stoles: $[f(m), e_{H}] \cdot e_{S}] \sim e_{H+j} + e_{H-j}$.

Nower stoles: $[f(m), e_{H}] \cdot e_{S}] \sim e_{H+j} + e_{H-j}$.

For Survivesy: $[f(m, 0), (0, e_{H})] \cdot (0, e_{H}) = 0$.

Sut: $[f(m, 0), (0, e_{H})] \cdot [f(m, 0)] \cdot (0, e_{H+j} + e_{H-j})$ and $[f(m, 0), (0, e_{H})] = (e_{H}, f_{H}(m, 0))$. And $[f(m, 0), (0, e_{H+j})] \cdot [f(m, 0)] \cdot [f(m, 0)$

Note: XETT is not the correct holy endition?

Much their hypothesis of Hörnester to Infinite.

down, but their hypothesis for hunders could not be prospected in this situ. This is a further.

weakerning of that, i.e. Hörneler end he weaked to a larver class of brackets for alm. Boushing.

too be fed as a to startly hypothesis.

The D. [Földer, Glatt-Kellz, R., 15]. Let de 2. 1027, wwo of dw = Zne, Kn Th dbn, xn fo.

Thusis h hv H.

the hydra portes a unique engodic minimar mann Mpr

3)

Hypellophe forcing as in Hörmander. Force large number of modes. ("egaintly elliptic").

When for $\rightarrow \infty$, Mr. herms. $\begin{cases} \nabla \rho - \Delta n = Ra \cdot d \times a \\ d\theta + (m \cdot \nabla \phi - \Delta \phi) \cdot dt = \sigma d\omega \end{cases}$.

The $\begin{cases} 0 \\ 1 \end{cases}$ [Földer, Glatt-Hubbs, R., 115].

The 3 [Folder, Glatt-Holz, R., 115]. If

If N=N(Re, To-T.) in My lugue, then the

Ayour hours a minus ergodic invent measure thas.

Moon, letter [Mp.] proper us invent morns

for thin 2, = g \(\epsilon (0,1) \) s.t. \(\text{V uff 6msh } \epsilon \) (Septer) d (Tother) - SH (40) dyns \(\epsilon \) \(\epsilon \) (Re(Pr)^{-9}.