POLYNOMIAL IN K

⇒ G(K,x') = etik·x' P(K) € G(x,x') = Jak P(x) tangh wholes! TRICK: Residue thm. (T) POLE PUSHING 2 move poles off meg. how to pick? USUALLY CAUSALITY. for US TIME t-t' <> ACAUSAL CAUSAI then: G(x,x') = 271 = Res (23) 8= 20 STERS 8 f(x) - [dx' @(x,x') s(x')

well, what if i ten't like that?

: 2 MOIT TO PREHITO

O Series souther

GO TO BASIS OF FIGENFUNCTIONS

US. POSITION SPACE

$$\Theta(\Xi t; e'(x)) = \Xi s; e'(x)$$

@ Piece-wise solution to Homog.

$$(x) QG(x,x') = S(x-x')$$

$$OG_3(x,x') = 0$$
 $OG_3(x,x') = 0$
 OG_3

HONDER OF SOLVE USING BAG & TRICKS,

2 UNKNOWN PURCTIONS -> 2x the PREMISERS

(3) USE (M) of Motorius of (M) to mater

This Eunotrons over 8(x-x)

What if my problem Boil fing unEAR?

1. simulate/ numerical

MOST PROBLEMS ARE NOT "Fully"

2. PERCURBATION THEORY IN NON-UNEBE PART

1 eg. Feynman Diagrams



non invers thens; aught each line; Invest blobadation of

TUKE BHO OR EM WOVE

VELTEX: nonlinear etall veppens

HAPPEN SHOUND BE "SMALL"

3 NATURE IS KIND

Softwar handle

-> TOPOLOGICAL PROTECTION

-> EFFECTIVE PERTURBATIVE THEORY

-> symmetries, mathematical structure

Starlin was as

so and it what we do is linear algebra. I simula in a sizuana mid t

more math: DIFF. GEOM. WE UNEAR ALGEBRA? OXCULUS