The ng- te e tion

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If X is a non- mpt s t, a s t-th or tical l ti n of th ang- axt r quation $r : X \quad X \; ! \; X \quad X$ is a map such that th ll-kno n id e ti n

$$^{1} \; r_1 r_2 r_1 = r_2 r_1 r_2 \mathrm{id} r$$

is satis d, h r $r_1 = r \quad \mathrm{id}_{r!}$

Solutions of the Yang-Baxter equation

In particular, if X is a set, $r : X \times X \to X \times X$ is a solution and $a, b \in X$,

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In 1 tingof, Sch dl and Solow w, Gat wa-Iwanowa and Van d n gh

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efinition: the tahe o at syste

L t $(S; r_S)$ and $(T; r_T)$ b solutions and : T ! Sym(

Theo e : the t he o t of sol tions

L t $(S; r_S; T; r_T; \;;\;)$ b a match d product s st m.g08 fft L t

Particular case

The matched product of left non-degenerate involutive solutions (III)

Let $(S;r_S)$, $(T;r_T)$ be left non-degenerate involutive solutions and

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L t $r : S \quad S \to S \quad S$ b an involuti l ft non-d g n rat solution. If $; \ : S \to \mathrm{Sym}(S)$ ar d n d b $_u := \ _u$ and $_a := \ _a$, for all $a, u \in S$, th n $(S, r, S, r; \ ; \ )$ is a match d product s st m.

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