

# Wemi-b ares an the ang- axte eg ation 

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If $X$ is a s $t$, a s t-th or timali $I$ tim of th ang- axt i quation $r: X \quad X!X \quad X$ is a map sush that th or Il-known maide atiin nin

$$
r_{1} r_{2} r_{1}=r_{2} r_{1} r_{2}
$$

's sat's: $d$, wh i $r_{1}=r$ idx and $r_{2}=i d x \quad r$.



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If $B$ is a s m'-bran and a $2 B$, th $n a: B!B ; b 825] T J / F 43$ 8. 96 Tf


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## 召 o e ties ofl ima s $\rho_{b}$

If $B$ 's a $s$ m'-brag, $E$ th $s t$ of id mpot nts of $(B ;+)$ and 0 's th id nt't of (B; )

## 召 o e ties ofl ima s $\rho_{b}$

If $B$ 's a s m'-brag, $E$ th $s t$ of id mpot nts of ( $B ;+$ )

The sol tion assoriate to a skew $b$ are
omm a ison between the two sol tions

If B 's a sk wor brian n B 's a s m'-bran ov'th a group as add't'w strustur . What is th i lation b too $n$th solution assonlat $d$ to $B$ as sk ioo bras and th on assoriat $d$ to $B$ as $s$ m'-bian

If $B$ 's a sk wor bran th $n$ is a s m'-bran ovith a group as add't'm stivitur.

orm a ison between the two sol tions

If $B$ 's a sk ou bran



## Watahe o st l)

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