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geometric product of

multivectors therefore

inherits the two main

properties of the product

for vectors, which is to

say it is associative:  $A$

$(BC) = (AB)C = ABC,$

23 (2.11)

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distributive over

addition:  $A(B + C) =$

$AB + AC.$

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ditionally known as the  
STA (Spacetime  
Algebra). The STA is  
the geometric algebra of

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spacetime [2,7], and is generated by four vectors  $\{e_\mu\}$  which satisfy  $e_\mu \cdot e_\nu = \eta_{\mu\nu} = \text{diag}(+1, -1, -1, -1)$ . (1.1)

Throughout, Greek indices run from 0 to 3 and Latin indices run from 1 to 3. We use a signature in which  $\eta_{00} = +1$

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