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*Commutators in the Jiang–Su algebra*

Let  $\mathcal{Z}$  be the Jiang–Su algebra and let  $\tau$  be its unique tracial state. We prove that for all  $a \in \mathcal{Z}$ , the following are equivalent:  
(1)  $a$  is a finite sum of commutators. (2)  $a$  is a sum of five commutators. (3)  $\tau(a) = 0$ .